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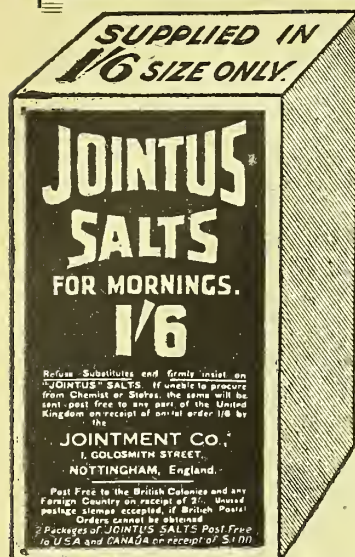
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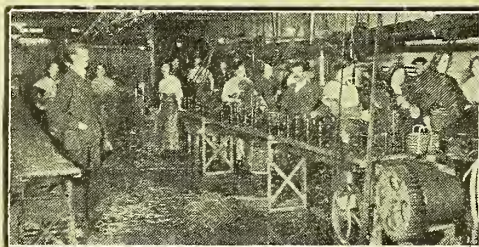
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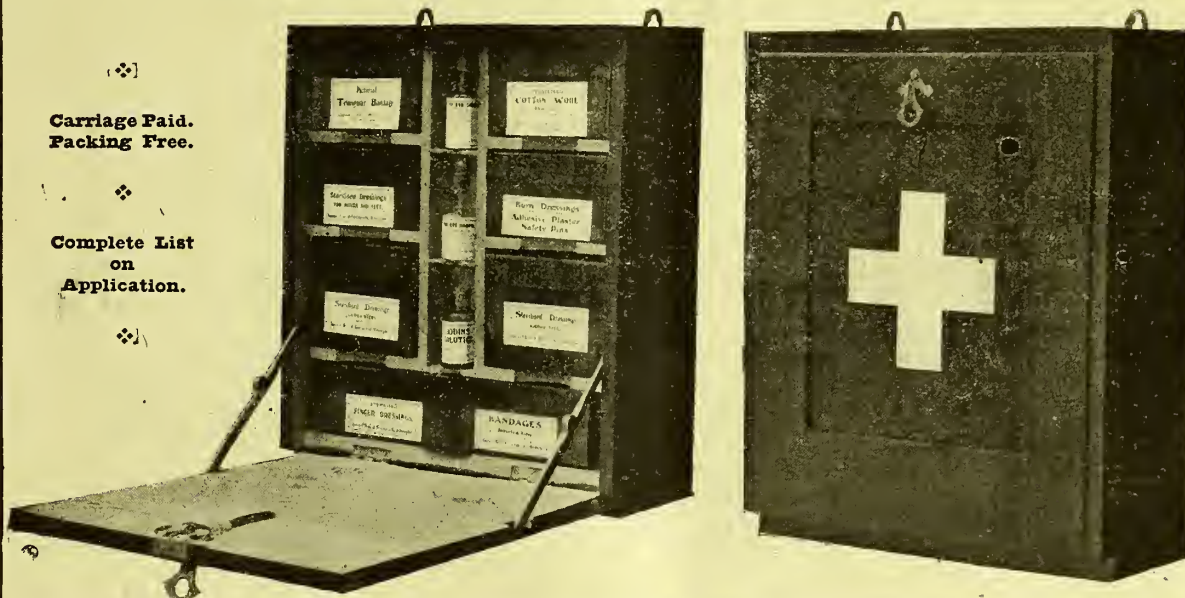
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5. 1 bottle No. 1 Eye Drops.
6. 4 packets Sterilized Cotton Wool.
7. 3 packets Sterilized Lint.
8. 4 pictorial Triangular Bandages.
9. 6 small Burn Dressings.
10. 3 large Burn Dressings.
11. 1 roll Waterproof Plaster.
12. 1 box Safety Pins.
13. 1 bottle Iodine Solution.
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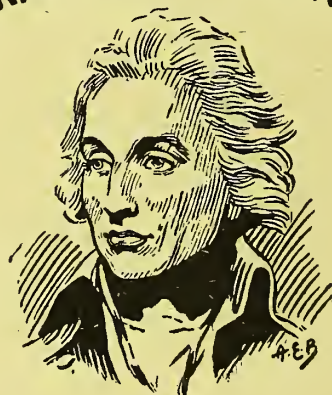
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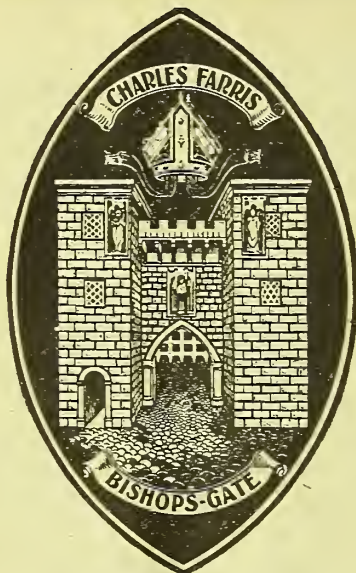


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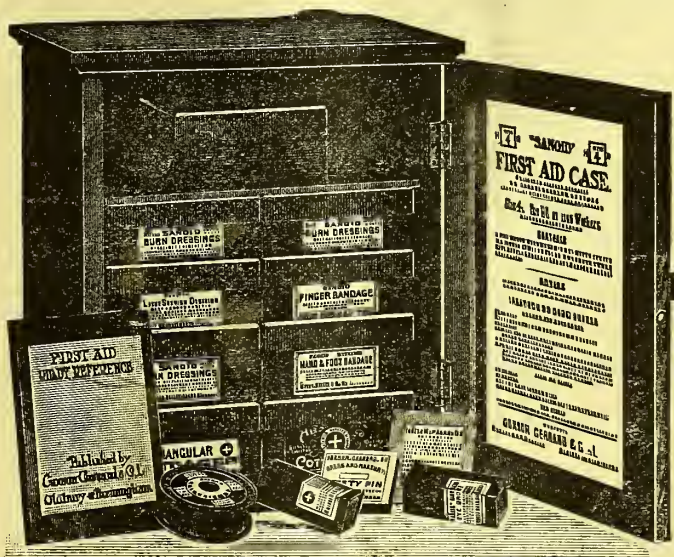


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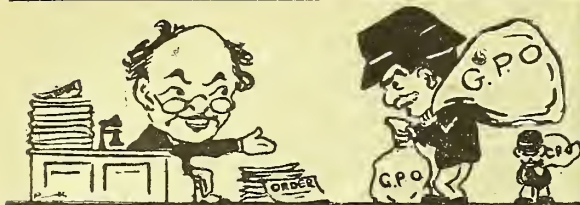
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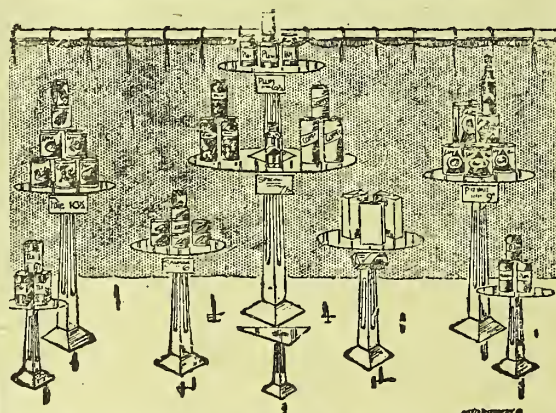
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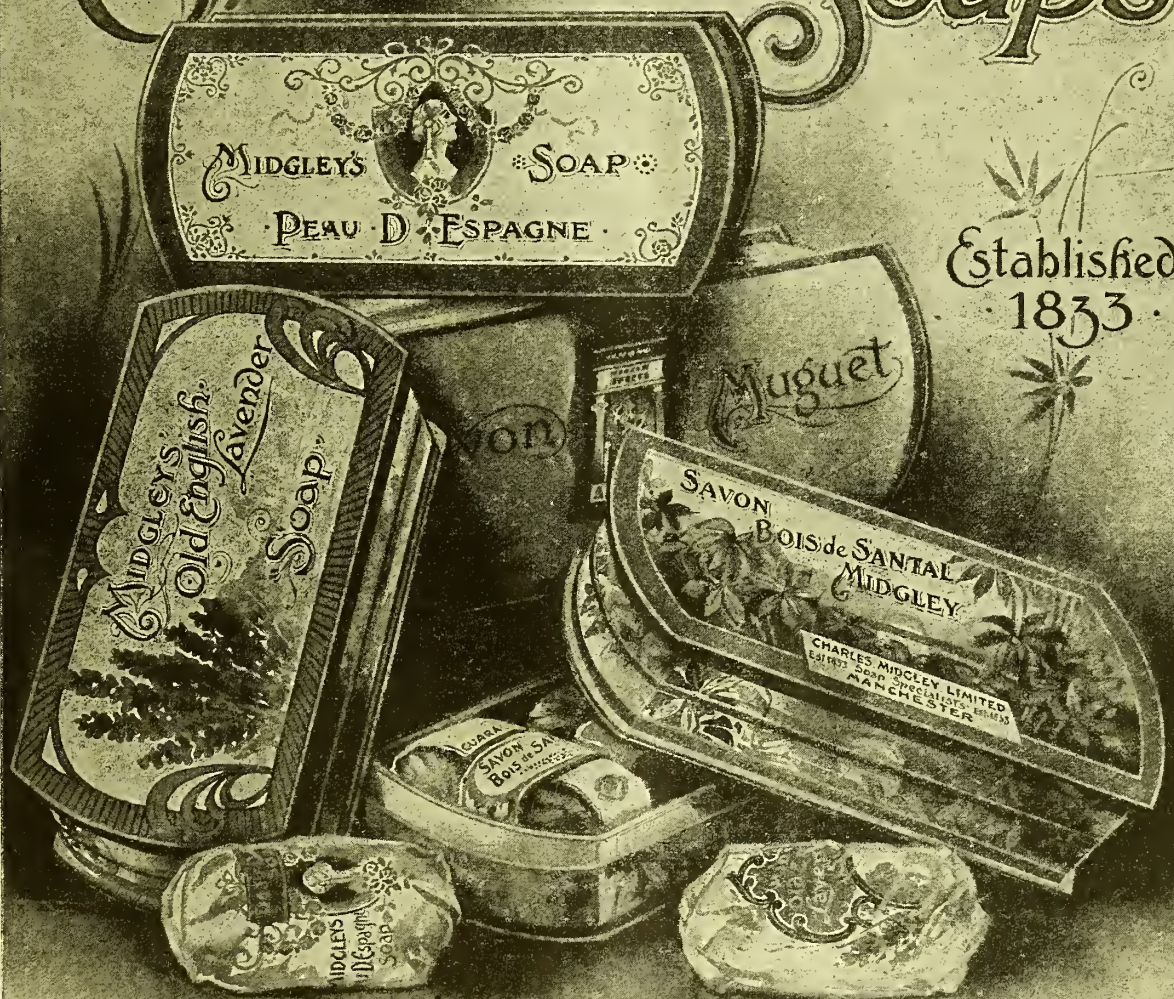
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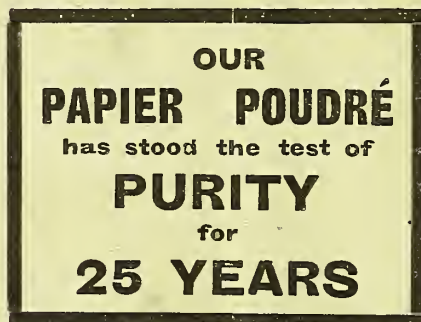
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Should be one of your leading lines. Can be recommended as the finest stick on the market. Now being advertised in the leading papers.

PROFITS GOOD AND
PRICES PROTECTED.

"ERASMIC," Perfumers, WARRINGTON.

FOR LARGE BUYERS.

Toilet Paraffins

Bulk or Packed.

Also Vanishing Creams, Brilliantines, Lime Creams, Shaving Sticks, Tooth Powders, Dental Creams, Shampoo Powders, and All Toilet Goods.

**LOW PRICES for
HIGH QUALITY.**

STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,
31-35 Lower Castle, BRISTOL.

(3)

9d



Make your
old Hat a
new one.

In bottles, 9d.
each, in sepa-
rate neat car-
tons, with suit-
able brush.

These Dyes
are a distinct
invention,
dyeing the
straw without
an objection-
able varnished
appearance,
and producing
the effect of
new goods.

NO GLOSS. NO POLISH.

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS,
ALSO LEAFLET OF TESTIMONIALS.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS,
KENDAL, ENG.

London Depot: 60-62 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.

Special Non-Inflammable Series for Export. Est. 1878

Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

TOOGOOD'S SHAMPOO POWDERS



EGYPTIAN HENNA SHAMPOO POWDER.

In boxes containing 7 Powders.
Superior Quality and Delicately
Perfumed,
10/6 per dozen boxes.



PINE, 7/6 doz.

PINE & HENNA,
8/9 doz.



PINE.

In Envelopes, 7 in box,
7/6 per dozen boxes.

PINE & HENNA.

In Envelopes, 7 in box,
8/9 per dozen boxes.

Customer's name free on 3 dozen boxes or bottles.

MANUFACTURED ONLY BY—

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E. 1.

A Happy Christmas

and a prosperous
New Year

to you is the sincere wish of Mr. Charles Sinclair Lewis and the Staff of the Anzora Perfumery Company. May you have a bigger turnover and bigger profits during the coming season.

If you have made a big thing out of Anzora during the past season, make a bigger thing of it in the future. If you have not handled Anzora before let it be your leading line from to-day. It is still forging ahead, and we are taking steps to push it still more vigorously in the future.

*Don't forget the trade terms for
Anzora Cream and Anzora Viola:*

11/6 per doz. Retail at 18/-
19/6 per doz. Retail at 30/-

Showcards and full particulars sent post free.

ANZORA
HAIR CREAM

ANZORA PERFUMERY COMPANY,
28, 32, 34 Willesden Lane, N.W. 6.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A.: Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
* LOSALL'S SALT (well advertised), tins		9d.	6/6
* " " " " " " " " " " " "		1/6	13/-
* " " " " " " " " " " " "	bottles in cartons	1/6	13/-

*** Losall's Salt sells so well, surely it
must pay Pharmacists to stock such
a big profit-bearing protected line.**

Owing to the great increase in the cost of raw material and containers for our Losall's Salt, we are compelled to raise the trade prices, but the retail protected prices are proportionately increased.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap. } 1/6 13/6
especially suitable for use in Eczema

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

Successful Home Dyeing.

FULL RANGE of COLOURS NOW AVAILABLE.

**EASY
TO
SELL.**

DIAMOND DYES

**EASY
TO
USE.**

Success in home dyeing is assured if your customers use Diamond Dyes. A separate dye for wool and all *animal* fibres such as silk, alpaca, fur, etc., and a separate dye for cotton, linen, hemp, and other fibres of vegetable origin.

You can safely recommend Diamond Dyes based on 30 years' satisfactory use in thousands of households. A full range of colours of each kind can be had if you order now.



3d. packets ... 1/10 per doz.
6d. " ... 3/6 "

Carriage Paid on Six Dozen
small or equivalent.

FASSETT & JOHNSON, Ltd.
86 Clerkenwell Road,
London, E.C. 1.



HAVE YOU RECEIVED OUR NEW CATALOGUE

**Of BOTTLING, TUBE- &
TIN-FILLING MACHINES,
MIXERS, EMULSIFIERS,
ETC.**

*Up-to-date Plant at Low prices.
Something to meet every need.*

WRITE—
ROBERTS' PATENT FILLING MACHINE CO.,
33 ROUNDCROFT STREET, BOLTON, ENGLAND.

NATIONAL WAR BONDS

Buy them Now!

The Chemist & Druggist, 42 Cannon St., London, E.C.4

Established
— 1846 —

Ferdinand ROQUES, PARIS. FACTORY: ST. OUEN.

Manufacturer of PURE PHARMACEUTICAL CHEMICALS.
GOLD MEDALS: PARIS, 1889, 1900. ————— GRAND PRIX: TURIN, 1911

COCAIN, PILOCARPIN, SPARTEIN. "ROQUES."

OTHER SPECIALITIES: Refined Camphor, Iodides, Iodoform, Iodothymol,
Bromides, Bromoform, Bismuth Salts, CACODYLATES, METHYLARSENATES.

SOLE AGENTS FOR THE U.K. (Wholesale only):

W. CHARITY & SONS, 14 Harp Lane, London, E.C.

Telephone AVENUE 4359
Telegrams: "CHARITY LONDON."
Codes A B C, and LIEBER'S.



DISCRIMINATING CRITICS
ARE SPECIFYING
ACETYL-SALICYLIC ACID

(M. & J. BRAND)



BECAUSE THEY KNOW IT IS THE FINEST ASPIRIN MANUFACTURED IN BRITAIN.

ACETYL-SALICYLIC ACID (M. & J. Brand)

Made at our Works in Camberwell, is B.P. or higher in standard. Of pearly white fine crystal-line character, it is absolutely free from any uncombined acids and of 100% therapeutic activity; nor does it ever produce gastric acidity or irritation, as is the case with many products on the market.

TABLETS.

Bottles of 25 × 5 gr. ... 6/- per doz. net.
 " 100 × 5 gr. ... 20/- " "
Name and Address free on 3 doz. small or 2 doz. large size.

BULK.

Containers 4 oz. ... 4/6 net.
 " 1 lb. ... 17/- "
Quotations for larger quantities on application.

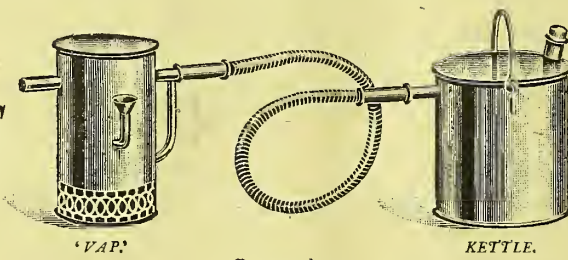
MENLEY & JAMES, Ltd., Manufacturing Chemists, "Menley House," Farringdon Rd., **LONDON, E.C.**

Contractors to H.M. WAR OFFICE.

Works: CAMBERWELL, LONDON, S.E.

THE NEW PATENT

SAVAR'S



'VAP.'

Patented.

The most effective, efficient, and economical vaporiser ever invented.

The cost is very low, 4/- complete. The value very high, and cure complete. Retail 5/6.

We will send one, carriage paid, for 4/- net as a trial.

EVANS SONS LESCHER & WEBB, LTD.

LIVERPOOL.

NEW YORK.

LONDON.

SAVE 3/- PER GALLON
BY BUYING

GUARANTEED GENUINE
NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL
OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

RATS

A customer in Collingham, Yorkshire, writes, 17/11/17: "Your 'Rodine' has proved most effectual.

THE FIRST DOSE, FROM WHAT I CAN SEE, HAS GASSED THE ENEMY IN HIS OWN DUG-OUTS."

RODINE

is the one vermin exterminator that is in vigorous demand — the preparation that absolutely exterminates the rats.

P.A.T.A., nearly 100 % Profit.

HARLEY,
Manufacturing Chemist,
PERTH, Scotland.

Export Agents: TOZER, KEMSLEY
& MILLBOURN, LTD., 84 Fenchurch
Street, London, E.C. 3.

"FLYBANE" W.D.O.

For industrial purposes.

"VERMIJELLI LIQUID"

For manure heaps. Kills maggots before the flies come into existence.

"GARDEN WASH"

A simple wash for growing plants.

Manufactured by **S. BOWLEY & SON**
Wellington Works, Battersea Bridge, S.W. 11.

AMPOULES.

JOHN BELL & CROYDEN, Ltd.,
Wigmore Street, W.1.

Specialise in Ampoule Filling.

**CHEMISTS' SPECIAL FORMULÆ PREPARED
ACCORDING TO REQUIREMENTS.**

Special Quotations for Large Quantities.
SEND FOR PRICE LIST.

KOLYNOS

OWING to shortage of supplies and consequent difficulty in executing ever-increasing orders we are reluctantly obliged to curtail our advertising for the time being.

UNTIL FURTHER NOTICE

we cannot make any arrangements for window shows on bonus terms.

AS SOON AS we are once more in a position to accept new business our former arrangements for window shows will be continued.

UNTIL THEN we ask you to kindly co-operate with us by ordering sufficient for your immediate requirements.

KOLYNOS INCORPORATED

43/44 SHOE LANE

LONDON, E.C. 4

TITTERTON'S CELEBRATED HAIR BRUSHES

**GOOD
PROFITS**
are made by selling
**TITTERTON'S
CELEBRATED
BRUSHES**
(Hair, Tooth, Nail & Shaving
Brushes).

They have a world-wide reputation for excellence of quality, and perfection of workmanship. Should be stocked by all Chemists desiring to give the public the best value for money.
Illustrated Catalogue on application.

TITTERTON & HOWARD,

Brush Manufacturers,

8 & 10 Great Titchfield St., London, W.1.

RUBBER TEATS. SPECIAL OFFER!

Quantities exceeding 1 gross sent post free.

Black Bottle Teats	...	...	@ 8/3 gross.
Transp. Bottle Teats	...	...	@ 10/9 "
Transp. Soother Teats	...	...	@ 3/9 "

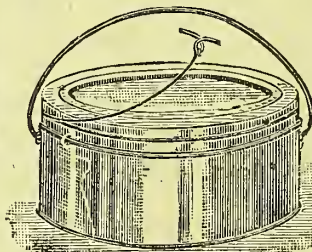
Quality Guaranteed.

Remittance with order, or send references to
WEISS, BIELLER & BROOKS, LTD.
70/71 Chiswell Street, London, E.C.1

The Northern Tin Canister Works,

6 Mersey Street,
LIVERPOOL.

Manufacturers
for the
Chemical Trade.



**TIGHT SEAMING &
VARNISH BOTTLES
A SPECIALITY.**

*Patent Air Tight Slip-lid Tin
For Export.*

Prompt Deliveries Assured.

Apologies.

14, HILLCREST ROAD
LONDON, E. 17

WE, THE GENERAL UTILITY AGENCY, hereby tender our humble apology to Messrs. Burroughs Wellcome and Company for trespass upon their trade mark rights by offering for sale "Lavender Scent Tabloids."

We undertake to destroy all printed matter in our possession in which the trade marks 'Tabloid' or 'Tabloids' appear where the products of Burroughs Wellcome and Company are not designated, to refrain from any further infringement of their trade mark rights, and we agree to publication of this apology.

Dated this 24th day of November, 1917

(Sgd.) EDWIN J. SPENCER
Proprietor

Witness:—

(Sgd.) E. SPENCER, JUN.
14, HILLCREST ROAD
WALTHAMSTOW, E. 17

14, HILLCREST ROAD
LONDON, E. 17

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(Sgd.) EDWIN J. SPENCER

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(Sgd.) E. SPENCER, JUN.
14, HILLCREST ROAD
WALTHAMSTOW, E. 17

The Registered Trade Mark

'Tabloid'

is an arbitrarily coined word or brand which designates specifically that goods supplied under this brand are issued by

BURROUGHS WELLCOME & CO.

The sale of articles of any other manufacture, when the word 'Tabloid' is used in ordering, is an infringement and unlawful.

We prosecute offenders rigorously, in the interest of prescribers, dispensers, patients and ourselves.



BURROUGHS WELLCOME & CO., LONDON

WARRICK BROTHERS, LIMITED

CHOCELLÆ.
PULVELLÆ.
FLEXOIDS.
FLEXETTES.
FIZZZLETS. *(Suspended)*
REFRESHLETS. *(Suspended)*
EXTRAITS AUX FLEURS.
ESSENTIAL OILS.
POMADES (FLORAL).
ROSE WATER.
SACHETS.
PERFUMES.
SYNTHOROSE.
CACHOUS.
FRAGRETS. NORETS.
PERLES.
PASTILLES.
LOZENGES.
ORIFORM LOZENGES.
WALMSLEY CLEANING
PADS.
CAPSULES.

NOSTRONES.
COMPRESSED TABLETS.
AMULETS.
POT POURRI (CINET'S).
JAPADUMS (CINET'S).
TOILET SOAPS.
CHAPIREAU'S CACHETS.
CINET'S GOODS.
CACHETS.
CACHET APPARATUS.
ZEPHYR BUTTONHOLES.
PERFUMETTES.
OTTOLETTES.
ZOMBS.
CHANTICLEER.
LUBRILAX.
THE "FLAG"
EAU DE COLOGNE.

Also Special Agents for
JELLOIDS.
IRON JELLOIDS.
DULCILAX.

6 Nile Street, City Road, London, N.1.

CLOSE TO THE EAGLE.

Telephone: LONDON WALL 2452 (2 Lines).

Telegrams: "WARRICKERS, HOX LONDON."

CORRESPONDENCE FROM OVER-SEAS SOLICITED.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

SUBSCRIPTION RATES.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 1s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Подписная цена на еженедельный журнал с приложением Годового Лесенника—12 шиллингов 6 пенсов на год с пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus. Cannon, London." Telephone 3617 Central (three lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

ABERCARN.—Conditional exemption was granted to Mr. A. C. Davies, assistant with Hughes & Sons, chemists, Crumlin.

AMERSHAM.—Six months' exemption was granted to Mr. George L. W. Coombes, chemist and druggist, Great Missenden.

BEXHILL.—Six months' conditional exemption was granted to Mr. S. J. Mott, chemist and druggist.—The case of Mr. H. K. Stapleton, assistant with Mr. R. W. Robbins, chemist and druggist, was adjourned for appellant to find work of national importance.

BLACKPOOL.—Final exemption to January 31, 1918, was granted to Mr. A. H. Noble, formerly science instructor under the local Education Authority, and now engaged in opening up new businesses among chemists in the North Midlands for the Capsol Dye Co., Blackpool. He contended that in his present occupation he was hitting the Germans as hard as if he had a bayonet, if not more so.

SHEFFIELD.—Final exemption to December 15 was granted to Mr. J. W. Blaker, chemist's apprentice.

TUNBRIDGE WELLS.—The appeal of Mr. A. E. Hobbs, Ph.C., for his apprentice, E. A. Tippen, was dismissed.

WALTON-ON-THAMES.—Four months' exemption was granted to Mr. Andrew Todd, chemist and druggist.

WEYMOUTH.—On appeal by the military authority, temporary exemption to February 28, 1918, was substituted for the conditional exemption held by Mr. Sidney George Hutt (Coles & Hutt, Ltd., chemists, St. Thomas Street).

European War News.

Import and Export Notices.

AUSTRALIA.—The High Commissioner has been advised by the Commonwealth Government that a proclamation, dated November 10, 1917, prohibits the importation into Australia as from January 1, 1918, of the following goods when put up in tinplate containers, viz.: Tobacco, cigarettes, boot-polish, confectionery, powders of all kinds, soaps except liquid soaps, linoleum-polishes, metal-polishes, spices, dry pharmaceutical preparations, and dry foodstuffs except biscuits, infants' and invalids' foods, and dried-milk foods. The Minister for Trade and Customs has decided that all these goods will be admitted for which a firm order was placed with the manufacturers before November 10, 1917, which were in course of manufacture on that date, and for which the Australian importer is committed to payment.

SWEDEN.—The Board of Trade are in receipt of telegraphic information from H.M. Minister at Stockholm to the effect that exportation of the following goods has been prohibited as from November 25: Chemical products, the following—Compressed ammonia gas; caustic ammonia; chromate of sodium and bichromate of sodium, also chromic acid; tartar emetic and other compounds of antimony, not being colours (the export of "emetic salt" was already prohibited); thorium nitrate and other compounds of rare metallic earths (the export of thorium nitrate was already prohibited); tungstic acid; salts of gold, platinum, and radium; nitrate of lead; chromium sulphate, chromium chloride, chromium subhydrochloride, basic, solid or liquid, containing a variable amount of sodium sulphate or sodium chloride; sulphofatty acids, chromate and bichromate of ammonium, chlorine gas dissolved in water, diphosphates, perborates, dinitrobenzol, trinitrobenzol, nitrotoluol, dinitrotoluol, trinitrotoluol, liquid bisulphite of calcium, nitrite of potassium and of sodium, salts of fatty acids, and chemical preparations not specially mentioned (in the tariff) consisting of or containing compounds of vanadium, molybdenum, chrome, tin, lead, cadmium, copper, or nickel. Essential vegetable oils and perfumes and cosmetics, the following—Bitter-almond oil, even if artificial; nitrobenzol (mirbane oil); heliotropin, cumamarin, musk, and other scented substances, not specified (in the tariff), natural or artificial, for use in the manufacture of perfumery, not being essential vegetable oils; liquid scents and toilet-waters containing ether or spirits; hair-dye; laboratory appliances, not specially mentioned (in the tariff), such as test-tubes, retorts, pipettes, and the like.

Personalia.

PRIVATE WILLIAM POTTIE, Royal Scots, eldest son of Mr. John Pottie (Boots, Ltd., Edinburgh), has been wounded for the second time.

PRIVATE DOUGLAS NAPIER, Northumberland Fusiliers, is officially reported missing: Private Napier is the eldest son of Mr. A. Napier (representing Warrick Bros., Ltd.), and enlisted after completing his apprenticeship with Thompson & Capper, Ltd., chemists, Manchester.

SECOND-LIEUTENANT GEORGE STALKER, R.E., who has recently received his commission, served an apprenticeship in pharmacy with Wilson & Kitchin, chemists, Whitehaven. He enlisted in November 1914, went out to France in the following May, and was awarded the Military Medal last July.

Miscellaneous.

BELGIAN DOCTORS' AND PHARMACISTS' RELIEF FUND.—At a meeting of the Committee held in London on December 10, a financial statement was submitted by Dr. Des Vœux which showed cash at bank 1,489l. 1s. 5d. It was resolved that steps must be taken to raise more money for the fund.

BRITISH WAR ARMS.—Mr. Asquith, at Birmingham on December 11, addressed a crowded meeting in regard to British war aims. In the course of his speech he said that if he had to live over again the momentous first days of August 1914, and had all the knowledge since acquired of the then unimagined horrors of a world-wide war, he should take the same decision as was then taken. Referring to President Wilson's statement that no one is threatening the existence, the independence, the peaceful enterprise of the German Empire, Mr. Asquith said none of the Allies seeks to prescribe the internal constitution of the Germany of the future. It is the system of Prussian militarism that must come to an end. Germany must learn that the system does not pay. We have no internecine and perpetual quarrel with Germany, but if there is to be a real pact it must rest on authentic proof that the German people are as ready as ourselves to set up the rule of common and equal rights.

B

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Christmas Holidays.

We have ascertained that the following houses will close for business on the dates mentioned:

Allen, Stafford, & Sons, Ltd., 7 Cowper Street, Finsbury, E.C., December 24, 25 and 26.
 Allen & Hanburys, Ltd., Bethnal Green, E., December 24, 25 and 26.
 Baiss Bros. & Co., Ltd., Grange Road, Bermondsey, S.E., December 25 and 26.
 Bell, John, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, S.E., December 24, 25 and 26.
 British Drug Houses, The, Ltd., 22-30 Graham Street, City Road, N., December 24, 25 and 26.
 Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, E.C., December 24, 25 and 26.
 Burgoyne, Burbidges & Co., Ltd., East Ham, December 25 and 26.
 Christy, Thomas, & Co., Old Swan Lane, E.C., December 24 to 29 inclusive. Urgent orders for vaccines, etc., will be executed during this period.
 Cox, A. H., & Co., Ltd., 93 Lewes Road, Brighton, December 24 to 29 inclusive.
 Curling, Geo., Wyman & Co., 56-59 Bunhill Row, E.C., December 24, 25 and 26.
 Dodge & Oleott Co., 20 Mark Lane, E.C., December 22, 24, 25 and 26.
 Edwards, W., & Son, 157 Queen Victoria Street, E.C., December 25 and 26.
 Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C., December 24, 25 and 26.
 Fabra Co., The, Ltd., 24 Minories, E., December 24, 25 and 26.
 Greeff, R. W., & Co., Thames House, Queen Street Place, E.C., December 25 and 26.
 Hewlett, C. J., & Son, Ltd., 35-42 Charlotte Street, E.C., December 25 and 26; stocktaking December 27, 28 and 29.
 Maw, S., Son & Sons, Ltd., 7-12 Aldersgate Street, E.C., December 24, 25 and 26; stocktaking December 28 and 29.
 May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C., December 24, 25 and 26; stocktaking December 28 and 29.
 Morson, T., & Son, Ltd., Gray's Inn Road, W.C., December 24, 25 and 26; stocktaking December 29 and 31.
 Newbery, F., & Sons, Ltd., 27 and 28 Charterhouse Square, E.C., December 24 to 29 inclusive.
 Parke, Davis & Co., 50-54 Beak Street, W., December 25 and 26.
 Reuter, R. J., 69 Carter Lane, E.C., December 22, 24, 25 and 26.
 Sangers, 258 Euston Road, N.W., December 25 and 26.
 "Sanitas" Co., The, Ltd., Locksley Street, E., December 24, 25 and 26.
 Smith, T. & H., Ltd., 25 Christopher Street, E.C., December 24, 25 and 26, and January 1, 1918.
 Sparks, White & Co., Ltd., Tenter Street, E., December 24, 25 and 26.
 Stevenson & Howell, Ltd., 95a Southwark Street, S.E., December 24, 25 and 26.
 Toogood, W., Ltd., 77 Southwark Street, S.E., December 24, 25 and 26; stocktaking December 31 and January 1, 1918.
 Tyrer, T., & Co., Ltd., Stratford, E., December 24, 25 and 26.
 Wright, Layman & Umney, Ltd., 44-50 Southwark Street, S.E., December 24 (at 1 p.m.), 25 and 26; stocktaking December 31 and January 1, 1918.
 THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C., December 25, 26 and 31.

Commercial Intelligence.

Sir Arthur Steel-Maitland, M.P., head of the newly constituted Commercial Intelligence Department, held a conference with representatives of the Press on December 6. Sir Arthur explained that the new Department originated from the fact that there had been some difference of opinion between the Foreign Office and the Board of Trade as to which Department should control the Consuls and the Commercial Attachés of the various British Embassies, and the superintendence of a great deal of our overseas trade. A Committee appointed to deal with the matter came to no conclusion. Hence the proposal to form a joint Department, which will absorb several Sub-Departments of both the Board of Trade and the Foreign Office, including:

1. The old Department of Commercial Intelligence of the Board of Trade.
2. The War Trade Intelligence Department of the Foreign Office, which deals not only with blockade and Admiralty questions but also with economic questions such as those which might arise in peace negotiations.
3. The Foreign Trade Department of the Foreign Office, which deals with the statutory list of enemy firms in neutral countries and with the development of British businesses to take their place.
4. The Consular Service and the Consular Department of the Foreign Office. Temporarily this is entrusted to Sir Arthur Steel-Maitland personally, but it will be taken over by the new Department as soon as offices contiguous to the Foreign Office can be obtained.

The new Department is to be divided into:

1. An Oversea Division, organised in geographical subsections, some dealing with foreign countries, and others dealing with the several parts of the Empire.
2. A United Kingdom Division, subdivided according to trades and industries.

Dealing with the delimitation of powers between the new Department on the one hand and the Board of Trade and Foreign Office on the other, Sir Arthur Steel-Maitland said that it had been settled that the new Department should not only collect information, but should take action in regard to trade and commerce overseas, subject to certain reservations. Thus an item of business which affected a whole class of industry—a commercial treaty, for instance—was reserved for the special Department of the Board of Trade which dealt with treaties. Again, when a piece of business became predominantly political it would be handed over to the Foreign Office on the understanding that the new Department was consulted on the commercial side. It would also be necessary that the Foreign Office should deal with any matter which required a direct representation to a foreign Power. The new Department would be assisted by an Advisory Committee representative of the financial and other interests concerned in its work.

Birmingham.

Mr. Wilfred Hill has been appointed a member of the Whitley Reconstruction Committee.

Experiments with flavine are being made in dermatitis of an unusual type caused in munition-works by certain lubricating-oils.

Dr. Harold Black has been appointed radiographer to the Birmingham General Hospital in succession to Major Hall Edwards, resigned.

Mr. Laurance C. Tipper, Balsall Heath Drug Mills, is the Chairman-elect of the newly formed Birmingham Chamber of Agriculture.

The perfumery departments of our local pharmacies must be doing fine business, to judge from the redolent atmosphere of the tramcars. The perfumes of some young munition-workers are as striking as their footgear.

Mr. Asquith, on his recent visit to Birmingham, was the guest of Mr. Arthur Brampton, who served his apprenticeship in pharmacy to P. Harris & Co., Ltd., Edmund Street, but was eventually tempted into the paths of invention.

In a recent issue of the "Birmingham Post" a chemist advertises for a lady dispenser, "Hall qualification preferred, not essential"; and a lady dispenser, "partly qualified," offers her services to a chemist. Could they but meet—!

Failing the discovery of a new dental anæsthetic, painless dentistry seems likely to become a thing of the past, the prices of such things as cocaine being almost prohibitive. A local philologist, by the by, insists on three distinct syllables, co-ca-ine, when speaking of our best-guarded alkaloid.

In a recent address at the Birmingham Rotary Club, Mr. Marshall Freeman, chemist and barrister, remarked that the ordinary statutes had been snowed under by an over-increasing fall of departmental legislation—orders from Ministers, Controllers, and Directors having not infrequently the effect of neutralising other orders.

It rarely happens that a litigant who loses in a law case has the satisfaction of hearing his character and conduct vindicated so completely as Mr. Marshall Freeman did by Mr. Justice Atkin at Birmingham Assizes last week. The Judge, in deciding "with difficulty," as he said, on purely legal grounds against Mr. Marshall Freeman, went out of his way to give a certificate of honourable conduct which ought to dissipate for ever any belief in the rumours that were going about the city before the action was tried.

Cambridge.

There has been much searching of back numbers of the *C. & D.* here to find the statement referred to in the current issue of the "Script" concerning the scarcity of pharmaceutical "ginger." Some establishments, by the way, are rather overstocked with ginger, and would be happy to oblige the less fortunate.

Questions are being raised locally in regard to the success of panel doctors in obtaining better terms for the treatment of discharged soldiers than the ordinary flat-rate. It has been asked, for instance, whether this higher payment has any connection with the recent failure of panel chemists to secure adequate remuneration. Did the officials of the Local Associations Executive know of the doctors' claims? If so, were the delegates given any hint? Pharmacists will find it hard to forget that they have put their dispensing skill at the disposal of soldiers' dependants in the past.

Liverpool.

The votaries of castor oil complain, in numerous instances, that it has lost its virtue since Government control began.

The Christmas Parcel Committee at 34 Hanover Street has sent off about a hundred parcels to members of the staff of Ayrton, Saunders & Co., Ltd., now serving with the Forces, 46^l, having been collected "in the house" for that purpose.—The "I.X.L." concert-party of the same staff recently gave a musical entertainment to the inmates of Moss Side Military Hospital, a one-act comedy by Mr. E. N. Torry, one of the company's representatives, being a leading feature.

The British Association of Chemists held a meeting on December 18 in the Chemistry Theatre of the University, when nearly two hundred persons were present. Professor E. C. C. Baly, F.R.S., was in the chair, and the meeting passed a resolution approving the aims of the meeting held at Manchester on November 10 (*C. & D.*, November 17, p. 35). It was also agreed to appoint delegates to meet the Institute of Chemistry on December 14, along with representatives of the meetings held in Manchester and Birmingham. The sneers at chemists and druggists which were a feature at the previous meetings were absent this time.

Sheffield.

The local Society shows a continued increase in membership, and is more representative than for many years past.

T. B. & W. Cockayne, Ltd., have opened a new drug department at Angel Street, and are making a display of packed goods and proprietaries.

The local Co-operative Society's scheme for promoting Parliamentary candidates has been rejected by a large majority of its general members.

Mr. F. R. Hampshire, chemist and druggist, late of Sheffield Moor and Wadsley, has taken up an appointment with Boots, Ltd., at High Street, Sheffield.

Sheffield chemists are not pleased at the one-day's notice given them for adopting the Codex "W.E.F.," as a certain amount of special preparations will be thrown on their hands as bad stock.

Miscellaneous.

ERRAND-BOY ASSAULTED.—Cyril John Holland, described as a chemist, 82 Radford Boulevard, Nottingham, was fined 2^l, and costs for a brutal assault on an errand-boy.

ADVANCE IN CONTAINERS.—The leading Metropolitan manufacturing chemists announce an advance in containers, etc., such as bottles, carboys, jars, bungs, narrow-mouthed stone-ware bottles, and hampers.

POISONING.—Eugénie Moinichen, Ackers Street, Chorlton-on-Medlock, a teacher of languages, died on December 4 as the result of oxalic-acid poisoning. A verdict of "Suicide while of unsound mind" was returned at the inquest.

MEDICINAL WINES.—For exposing intoxicating liquors (medicated wines) in two chemists' shops, one at Putney and the other at Wandsworth, and without having a licence to sell wines, Mrs. Durban was, on December 12, fined 4^l.

PATENT EXTENSION.—Sir James Dewar, F.R.S., is petitioning for an extension of patent 13638 of 1904, entitled "An Improved Method of Absorbing Gases and the Application Thereof to the Production of High Vacua and the Separation of Gases."

BABY KIDNAPPED.—At Brixton, on December 4, a baby girl was taken from a perambulator left outside a chemist's shop. A reward of 20^l. for recovery has been offered by the parents, who, meanwhile, have received many tenders of other babies.

SOCIETY OF APOTHECARIES.—The tercentenary of the foundation of the Society of Apothecaries was celebrated by a breakfast at the Apothecaries' Hall, Blackfriars, London, E.C., on December 6. In 1617 the Apothecaries' Company separated from the Grocers' Company.

DRUG CLUB.—At a meeting of the Drug Club held on December 11 at the Cannon Street Hotel, London, E.C., the following officers were elected for the coming year: *President*, Mr. Roger M. Harvey; *Vice-President*, Mr. Herbert C. Wright; *Hon. Secretary*, Mr. T. Edward Lescher.

MILITARY RECRUITING CHARGE APPEAL.—On December 11, after a two days' hearing, the Court of Criminal Appeal dismissed the appeals of Dr. G. H. Bishop and B. G. Grantway, surveyor, against the sentences passed on them at the Central Criminal Court on October 19 in the "heart-pills" case (*C. & D.*, October 27, p. 35).

DISTRIBUTION OF LARD.—The Ministry of Food will regulate from February 1 the preliminary distribution of imported lard purchased by them, and they will make use as

far as possible of the ordinary channels of distribution in the trade—viz., retailers, wholesalers, refiners, and importers. In order that the available supplies may be fairly distributed the trade will receive supplies as far as possible in proportion to 1916 sales.

BENEVOLENT FUND.—The election of ten annuitants on the Benevolent Fund of the Pharmaceutical Society took place at 17 Bloomsbury Square, London, W.C., on December 11. Mr. J. F. Harrington presiding. There was no contest this year. The following candidates were elected: Clara Barnes, Martha C. Bennett, Julia A. Bolton, Eliza Burnett, Harriette B. Campbell, Mary A. Harwood, Frank P. Moore, Lucilla Riley, Louisa Rogers, and Mary Ann Varder.

Irish News.**Brevities.**

Mr. J. Stewart Waddell has been appointed to represent Parke, Davis & Co., Beak Street, London, W., in the South of Ireland.

Mr. Matthew Robert Linden, who died on December 8, at the age of seventy-one, was a departmental manager with Thos. McMullan & Co., wholesale druggists, Belfast. He had been at business on the day before his death.

At Derry Petty Sessions last week, James Leslie Harper Broncho was fined 5^l., and 1^l. costs, for having published an advertisement in a Derry railway guide describing himself as a dental surgeon, he not being registered under the Dentists Act.

Scottish News.**Brevities.**

Agricultural chemists may remind their customers that on New Year's Day there is a rise in the price of sulphate of ammonia.

The first severe frost of this winter is being experienced in the Lowland and Border counties, and business there has rapidly improved.

Mr. A. W. Ritchie, chemist and druggist, has been appointed dispenser to the Montrose Royal Infirmary for the year ending October 31, 1918.

The attention of the Highland and Agricultural Society has been drawn to the prevalence of a disease among horses in Forfarshire and Perthshire, attributed to eating alsike clover just before the plant flowers. The pasture is to be examined for supposed toxic properties by Professor Dewar, Dr. J. F. Tocher, and Mr. McAlpine.

Dundee.

Delays in transit are so commonly expected at the present time that an instance of prompt service deserves mention. Empties were handed to the railway carrier at Dundee on a Saturday, and on the following Tuesday morning the credit-note arrived from Edinburgh by first post.

Edinburgh.

A lady who called at a pharmacy recently for a developed spool of films was for a moment cast down by the discovery that nothing had appeared in the semblance of a negative. Then, quickly recovering her serenity, she remarked, "It can't be helped, I suppose. There'll be nothing to pay, of course!"

A meeting of the Edinburgh and East of Scotland Section of the Society of Chemical Industry was held in the Cockburn Hotel, Edinburgh, on Tuesday, December 11. Mr. D. B. Dott, Ph.C., occupied the chair. Dr. T. Keltie submitted a paper on antiseptics, and Principal Laurie (of the Heriot-Watt College) and Dr. Clerk Ranken, in a paper on "The Preservation of Stone," gave the results of an extensive investigation carried out for H.M. Office of Works.

Business Changes.

ROMARIZ & PISTACCHINI, importers and exporters, Lisbon and Oporto, announce the removal of their London branch to 28 Bishopsgate, E.C. 2.

MALLAGH & Co., drug and chemical merchants, have removed to larger premises formerly occupied by the Bayer Co. at 19 St. Dunstan's Hill, E.C. 3. Mr. Mallagh is a pharmacist, and has recently been elected Fellow of the Chemical Society.

Legal Reports.

A Chemist's Claim.—At Chesterfield on December 7, Mr. J. H. Toplis, chemist and druggist, Chesterfield, claimed 20*l.* from Mr. P. M. Robinson, Park Hall, Walton, as damages for collision. A boy employed by defendant, whilst looking behind him and driving at a good rate, ran a pony and trap into plaintiff's conveyance. Judgment was given for plaintiff for 20*l.*, with costs.

Tincture of Iodine.—At Portsmouth on December 11, Mr. G. W. Darling, chemist and druggist, trading as Perfect & Co., 161 Commercial Road, Portsmouth, was summoned, under the Sale of Food and Drugs Acts, for selling tincture of iodine 37 per cent, deficient in iodine. Defendant suggested that the tincture had decreased in strength through volatilisation. A fine of 40*s.* was inflicted. The case was defended by the Chemists' Defence Association.

Spurious Beecham's Pills.—At Bristol on December 7, Thomas Jones, a herbalist and manufacturing chemist, was summoned, under the Merchandise Marks Act, for applying a false trade-mark and description to pills which he described as "Beecham's pills." The prosecution stated that defendant was in the habit of filling boxes which had contained Beecham's pills with other pills and disposing of them to shopkeepers. Defendant was fined 2*l.* in each of four cases, and two guineas costs.

Insurance Commission.—In the City of London Court on December 11, before Judge Rentoul, Mr. J. W. Preedy, 53 Houndsditch, claimed 5*l.* 6*s.* 10*d.* from Mr. H. J. Hockley, 39 Moorgate Street, balance of commission for insurance business introduced by plaintiff from H. Marks & Sons and the International Sponge Importers, Ltd., on aircraft and marine insurance. Defendant told the Court that plaintiff was entitled to nothing. The insurance upon which plaintiff claimed commission was connected with his employers' business. Plaintiff said he had to pay one-third of the commission to the Assistant Secretary of the company. Judgment was given for the plaintiff, with costs.

"Starchall."—In the City of London Court on December 6, before Judge Rentoul, Mr. C. G. Rothschild, commercial traveller, Highgate, claimed 11*l.* 10*s.* from Max Emanuel & Co., starch-manufacturers, 41 and 42 Shoe Lane, E.C., the balance of account for work done as traveller. Plaintiff was appointed at 1*l.* a day and 5*l.* a week expenses to sell a starch substitute known as "Starchall." The trial engagement was for four weeks. Defendants complained that plaintiff stayed too long in Glasgow, and also wanted to sell the product at 36*l.* a ton in place of the minimum of 38*l.* arranged with him. In consequence defendants refused to pay the balance claimed. Plaintiff said that defendants reduced the price to 36*l.*, but Mr. Pappenheimer, who owns the business of Max Emanuel & Co., said that price was only for large orders. The Judge said it was a difficult case to decide, but found for the plaintiff for 8*l.*

Chemist's Estate.—At Birmingham Assizes on December 7, Mr. Justice Atkin concluded the hearing of an action arising out of the distribution of the estate of the late Mr. Freeman, who carried on business as a manufacturing chemist at Icknield Street, Birmingham. The plaintiff, Mr. J. H. Freeman, is at present carrying on the business. The defendant was his brother, Mr. W. Marshall Freeman, barrister-at-law and chemist. The claim was for 200*l.* alleged to be due under an agreement. In outlining the plaintiff's case Mr. Hugo Young, K.C., said that in consequence of a difficulty arising between the brothers in settling up the father's estate a compromise was arrived at, and an agreement was drawn up under which plaintiff was to pay his brother 200*l.* conditionally, defendant alleged, upon the formation of a limited company, which was never carried through. Defendant became a qualified chemist in 1893, and set up in business on his own account at 4 City Road, Edgbaston, subsequently transferring to 258 Dudley Road. The business was sold in 1907 after defendant had been called to the bar. When his father died in November 1913 the accountants alleged that there was owing by defendant to the father's estate on this account 775*l.* 15*s.* 11*d.* This sum was not included in the accounts prepared for probate, and an agreement was drawn up between the brothers in May 1914, under which 200*l.* was said to be due to the plaintiff. Defendant, in the witness-box, said the 775*l.* odd was the difference in the price of goods sent from his father's shop to his own shop in City Road and the amount Mr. Freeman, sen., received in return. He had a distinct business in a veterinary department which he established and carried on separately. During the hearing the jury was dispensed with, and counsel decided to leave the construction of the agreement to the Judge.

Mr. Justice Atkin found for the plaintiff for the amount claimed, but added that nothing had been disclosed in the case which in any way reflected upon the conduct of the defendant.

Sale of Bromural Tablets.—As briefly reported last week (p. 37), three summonses were heard before Sir John Bell at the Mansion House, London, E.C., at the instance of the Board of Customs and Excise, against Hammond Jeffrey & Co., Ltd., 8 Harp Lane, London, E.C., for selling bromural tablets unstamped. The first summons referred to a sale on August 15. Mr. G. Beloe Ellis, who appeared for the defendant, pleaded "Not guilty." Mr. Dart, for the prosecution, explained that the summons was taken out under the Medicine Stamp Act, 1812, wherein several grounds of liability to medicine stamp-duty were specified: (1) claims to have any occult secret or art for the making or preparation of the medicine, (2) bath or claims to have any exclusive right or title to the making or preparing, (3) has been issued under the authority of letters patent. Mr. Dart said he relied in this case chiefly on the second ground. Mr. R. F. Hall, of the Special Service staff at the Customs House, saw an advertisement in *THE CHEMIST AND DRUGGIST*, June 2, in which defendants stated, "All particulars re the late Knoll's preparations from the English owners, Hammond Jeffrey & Co., Ltd., bromural, a drug for insomnia, being specified as one of these. A purchase of bromural tablets was made on behalf of Mr. Hall by Mr. Persichetti, an assistant employed by Northway & Co., Ltd., Great Tower Street, and these were supplied unstamped. Mr. Hall afterwards interviewed Mr. Hammond Jeffrey, who is one of the two directors of the company, and asked for an explanation of the sale of the drug unstamped. Mr. Jeffrey explained that bromural is made under Patent 942 of 1907, and is a pure drug under the exemptions of the Medicine Stamp Act. He admitted that by the Knoll case (*C. & D.*, August 21, 1915, p. 40) it had been decided that the tablet form was not a pure drug, but Mr. Jeffrey suggested that it could be sold unstamped for dispensing. Mr. Hall pointed out that a special label was required for that purpose, and then obtained from defendant an account of his sales of bromural tablets. Mr. Harry Persichetti, who made the purchase, gave evidence, and in cross-examination by Mr. Ellis said it is necessary to add inert ingredients to drugs to make them suitable for administering. Mr. Hall also gave evidence, and said that over a thousand tubes of bromural tablets had been sold, which were each liable to 1*s.* stamp-duty, and 253 smaller tubes liable to the duty of 6*d.* Witness was cross-examined by Mr. Ellis as to special exemptions for pure drugs and as to the entry in schedule "Foreign medicinals of all kinds except drugs." Bromural, being imported from France, might be a pure drug, but he did not agree that the entry referred to exempted drugs of foreign origin. As a drug it would be exempt, but not as a medicine. Questions were also asked in regard to the entry "Lozenges, peppermint," etc., but the Alderman disallowed a question about there being no exclusive right to make bromural. Re-examined, Mr. Hall said the drug was sold in the form of a medicine. Mr. Ellis, addressing the Court, claimed that bromural, being a drug of foreign origin, was especially exempted. No exclusive right of making the drug was claimed. Mr. Hammond W. Jeffrey, for the defence, said he took the responsibility for the insertion of the advertisement in *THE CHEMIST AND DRUGGIST*. He purchased the stock of Knoll's preparations, but had no rights under the bromural patent. He had not recommended bromural to the public, the advertisement being in a trade paper. In answer to the Clerk, witness said he could not say whether the public could purchase *THE CHEMIST AND DRUGGIST*. The Alderman called attention to the fact that *THE CHEMIST AND DRUGGIST* is registered as a newspaper, and published weekly at 42 Cannon Street. Mr. Ellis wished to put in a copy of the paper dated February 24 in which bromural tablets were advertised, but the Alderman disallowed this as the issue referred to is that of June 2. Mr. Ellis then called attention to the Lamplough case, in which it was decided that the specific mention of an article in the schedule of the Medicine Stamp Act kept it out of the general clause. The Alderman said he had decided to convict, and fined defendant 10*l.*, and five guineas costs. The other two summonses were withdrawn. Mr. Ellis was given seven days to consider whether the case should be taken to a superior court.

CYPRUS SULPHUR.—According to the official "Cyprus Agricultural Journal" of July 17, sulphur has been found in the mines at Skouriotissa. A moderate deposit has already been located, and steps are now being taken to extract and refine the sulphur, and to prepare therefrom flowers of sulphur of a quality which it is believed will be suited for the treatment of vines.—*Board of Trade Journal.*

Births.

JAMIESON.—At 181 Strathmartine Road, Dundee, on December 7, the wife of D. Maxwell Jamieson, chemist and druggist, of a son.

LEVIS.—At the Square, Bantry, co. Cork, on December 3, the wife of R. E. Levis, Ph.C., of a son.

Marriages.

ROBERTS—CALDECOTT.—At Chester Street Baptist Church, Wrexham, on December 8, by the Rev. Lewis Morris, Corporal W. Roberts, Llanarmon, to Lucy A., only daughter of Mr. C. G. Caldecott, Ph.C., Regent Street, Wrexham.

THOMAS—PRICE.—At Llandilo Parish Church recently, Lieutenant T. Thomas, formerly assistant with Mr. D. M. Davies, chemist and druggist, Rhosmaen Street, Llandilo, to Lizzie, elder daughter of Mr. T. Price, Llandilo.

Deaths.

BECKETT.—At 2 Queensdown Road, London, E., on November 28, Mr. Thomas Sharpe Beckett, chemist and druggist, aged eighty-two.

DODD.—The late Mr. Ralph Dodd, whose death was referred to last week (p. 38), was in his sixty-second year. When he was at Clifton the business was known as Giles & Co., and Mr. Dodd was a contemporary with Mr. W. H. Millhouse and Mr. T. F. Perkins. The funeral service took place at Cheshunt Parish Church on December 8 at 2 P.M., the Rector officiating. Among those present (about 100 altogether) at the service, or subsequently at the graveside, were: Mrs. Dodd (widow), Miss Dodd (daughter), Mr. and Mrs. Attfield (son-in-law and daughter), Mr. H. Vincent Dodd (brother), Mr. J. D. Wheldon, Mr. F. J. Hanbury (chairman of Allen & Hanburys, Ltd.), and Mrs. Hanbury, Messrs. R. J. Hanbury, F. C. Gamble, and J. Netherway (directors), Messrs. W. G. Bulley, J. Young, and E. Wessendorff (the three oldest employees of Allen & Hanburys, Ltd., representing between them 140 years' service), also Messrs. H. Jenkins, W. J. Petty, W. H. McCallum, E. K. Grove, W. Marshall, F. C. King, H. W. Radford, representing the various branches and the representative staff. In addition to several beautiful wreaths from the family, handsome floral tributes were sent from Mr. and Mrs. F. J. Hanbury, the directors of Allen & Hanburys, Ltd., and from each of the company's branches—Plough Court, Vere Street, Wigmore Street, Bethnal Green, and Ware Mills. The interment took place at Lavender Hill Cemetery at 3 P.M.

ELIMAN.—On December 5, Mary, wife of James Elliman, Slough.

FIELD.—At Cambridge, on December 8, Mr. Ebenezer Field, chemist and druggist, 30 Hills Road. Mr. Field served his apprenticeship with the late Mr. Joseph Sturton, Fitzroy Street, and opened in business at Regent Street, Cambridge, in 1858, removing to Hills Road fourteen years later. For some years he was a member of the Town Council, and was widely esteemed both in his public and his private capacity. He was conversant with photography and electricity. His son, Mr. W. J. Field, chemist and druggist, whom he trained, is now in charge of the dispensary and the x-ray department at Addenbrooke's Hospital. Another son, Mr. E. H. Field, chemist and druggist, assisted him in the Hills Road establishment.

HARDY.—At Gaddesby Villa, Hunstanton, on November 28, Mr. William Hardy, chemist and druggist, aged eighty-one.

SHANNON.—At 175a Highbury New Park, London, N., on December 1, Mr. Robert James Shannon, chemist and druggist, aged fifty-five. Mr. Shannon, qualified as a chemist in 1883, and was subsequently a member of the staff of S. Maw, Son & Sons, Ltd., for twenty-seven years, retiring on a pension, in consequence of ill-health, at the beginning of 1914.

Died on Service.

BALTER.—Private C. Balter, Loyal North Lancashire Regiment, has fallen in action. For upwards of eight years he was with Boots, Ltd., at The Pantiles, Tunbridge Wells.

CLOUTING.—Sergeant F. W. Clouting has fallen in action in France. He was the brother of Mr. J. M. Clouting, chemist and druggist, High Street, Hitchin.

DE FAYE.—Second-Lieutenant Edward Francis de Faye, Tank Corps, was killed in action in France on December 1. Lieutenant de Faye was the third son of Mr. F. G. de Faye, chemist, and Mrs. de Faye, David Place, St. Helier, Jersey.

EGLINGTON. — Bombadier Freeman John Eglington, H.A.C., has died at Cairo of wounds received in action, aged twenty-one. He was the son of Mr. M. de K. Eglington, chemist and druggist, Richmond Road, London, W. 12, and had been in Egypt since October 1915.

HARMAN.—Corporal R. S. Harman, Royal Munster Fusiliers, was killed in action on November 10. Corporal Harman, who in civil life was an assistant with Mr. D. S. Bennet, Ph.C., Cahirciveen, co. Kerry, had served with the R.A.M.C. before transferring to the R.M.F.

HINDLE.—Private George Harold Hardstaff Hindle, Northumberland Fusiliers, has been killed in action. His apprenticeship in pharmacy was served with Mr. George Hodgson, chemist and druggist, South Elmsall.

HODGES.—Private R. Hodges, Herefordshire Regiment, has fallen in action in Palestine. He enlisted from the pharmacy of Mr. F. Lewis Smith, chemist and druggist, Hereford.

LARCOMBE.—Sergeant Archibald Lionel Larcombe, Somerset Light Infantry, has fallen in action in Palestine. Sergeant Larcombe was mobilised as a Territorial on the outbreak of war, when he was an assistant with Mr. Libbis N. Burch, chemist and druggist, Chard. He served in the Gallipoli campaign, and was drafted to Egypt about eighteen months ago.

MCCRAW.—Corporal Gordon McCraw, Argyll and Sutherland Highlanders, has been killed on service. In civil life he had been an assistant with Mr. John Blyth, chemist and druggist, Charlotte Street, Leith, for fourteen years.

ROBINSON.—Rifleman Bert Robinson, Rifle Brigade, has fallen in action. He enlisted from the pharmacy of Mr. J. E. Gwilliam, chemist and druggist, Bishop's Castle.

ROYSTON.—Sergeant Charles Stewart Royston, Royal Field Artillery, was killed in action in France on November 23, aged thirty-three. Sergeant Royston, who passed the Minor examination in 1908, was in civil life a director of J. R. Cave, Ltd., chemists, Southport. He had been in France since January 1916, and had recently been recommended for a commission.

SOUTHON.—Second-Lieutenant John Edward Southon, London Regiment, has been killed in action in France, aged nineteen. Second-Lieutenant Southon was the son of Mr. J. E. Southon, chemist and druggist, of Leadenhall Street, E.C., and it will be recalled that in our issue of November 17 we published the fact that the gallant young officer who has just met his death was awarded the Military Cross.

Personalities.

MR. J. GORDON HUME, Ph.C. (Tupholme & Son), Earl's Court, has been elected a Fellow of the Chemical Society.

MR. S. NORMAN PICKARD, chemist and druggist, Ossett, was on December 3 elected to the Senior Warden's Chair of St. John's Lodge, Dewsbury, No. 827.

MR. JOHN BIRKETT, Ph.C., Deputy-Mayor of Morecambe, has been appointed a Representative Governor of the Lancaster Girls' Grammar School.

COUNCILLOR PERCY KNOTT, chemist and druggist (Knott Bros., Bolton), has been elected a representative of his borough on the East Lancashire Association Territorial Force.

At the installation ceremony of the Aberystwyth Lodge of Freemasons, No. 1,072, Bro. W. Miall Jones, Ph.C., was appointed S.W., Bro. E. W. Wynne, chemist and druggist, S.D., and Bro. E. P. Wynne, chemist and druggist, Almoner.

MR. ARTHUR C. BOWDLER, manufacturing chemist, Wellington Street, St. John's, Blackburn, has given 1,000l. for the endowment of a bed at the Blackburn and East Lancashire Royal Infirmary in memory of his brother, the late Mr. Richard Bowdler, J.P.

SIR JESSE AND LADY BOOT entertained over a thousand wounded soldiers at the Stoll Picture Palace, London, W.C., on December 12. Miss Madge Titheradge and other distinguished artistes contributed to the programme, and a parcel of comforts was given to each guest. During the proceedings an album containing the signatures of all present was presented to Sir Jesse and Lady Boot as a souvenir.

Associations' Winter Session.

Aberdeen.—A meeting of the Aberdeen Junior Chemists' Association was held on November 22, the President in the chair. Mr. M. K. Watt gave a lantern-lecture on *Life in the East*, in the course of which he described the habits and customs of the different castes of people who inhabit the Malay Peninsula, also describing the city of Singapore, the botanical gardens, and the pharmacy in which he spent almost eight years. He described how drugs were imported, and the rates received.

Birkenhead.—The Birkenhead Chemists' Association held a "social" in aid of the Benevolent Fund on December 6 at the Woodside Hotel. Mr. Stephen Jones (President) occupied the chair, and was supported by Mr. E. S. Taylor (President of the Wallasey Association), Mr. W. H. Clubb (Vice-President of the Liverpool C.A.), and Mr. L. Moreton Parry. The room was crowded, and the music excellent.

Birmingham.—The inaugural meeting of the session of the Birmingham Pharmaceutical Association was held at the Grand Hotel on December 5. Members and friends were received by the President and Mrs. Buckingham, after which followed supper and a musical entertainment by Mr. H. R. Griffin's troupe, "The Allies." In the course of the entertainment a collection was made on behalf of the funds of the St. John Ambulance Rest Station, Snow Hill, G.W.R., and realised 12l. 2s. 6d.

Blackpool.—The monthly meeting of the Blackpool and Fylde Pharmacists' Association was held on December 7, the Vice-President (Mr. J. W. Huddart) presiding. It was decided to open as on Sundays on the days adopted as holidays by the Blackpool Tradesmen's Association for Christmas and the New Year. Mr. D. J. Bailey, delegate to the Federation of Lancashire Pharmaceutical Associations, gave a report of the annual meeting in Manchester on November 28. It was resolved that the Pharmaceutical Society be urged to use all its powers to retain the title of "chemist" for registered chemists and druggists. Mr. G. A. Clarke then read a paper on *The Education of Apprentices*. In this he deplored the lack of classes in Blackpool for the study of the subjects of the pharmaceutical examinations, and pleaded with pharmacists to give their apprentices every encouragement and facility to study during their apprenticeship. He advocated the formation of an Education Sub-Committee, and suggested that its first action should be an endeavour to establish a pharmacy course at the Technical School evening classes. In view of the provisions of the new Education Bill which is pending he thought that pharmacists would be well advised to make the first move. A discussion followed, and it was decided to form an Education Sub-Committee of five members, together with the officers of the Association as *ex-officio* members. The following were elected as the first Sub-Committee: Messrs. Boothroyd, Clarke, Platt, Sykes, and Turver. A vote of sympathy and condolence with the mother and widow of the late Mr. A. C. Davies was passed.

Leeds.—A meeting of the Leeds Chemists' Association was held at the Grand Central Hotel on December 5, under the presidency of Mr. N. N. Armitage. The members of the Bradford Association had been specially invited, and a party of them attended. Mr. J. W. Deakin gave an address on *Ideals and Realities*, in which, after reviewing the aims of the founders of the Pharmaceutical Society, he said they must all agree that those ideals were both sound and comprehensive; but the craft has largely passed from an age of ideals to one of business and organisation. The original fault in the Charter was the failure to make absolute the reservation to the chemist of all compounding and dispensing of prescriptions. He admitted that pharmacy alone cannot, under existing conditions, be a paying proposition, because there is not enough pure dispensing to go round; consequently the professional side receded somewhat and the trade side has become prominent. He was amazed at Mr. Hugo Wolff's suggestion that the craft should set to work to combat the co-operative movement and similar combinations. The proper body to do that, and the only one to do it effectively, is the National Chamber of Trade, to which every Chemists' Association ought to be affiliated. Mr. Deakin went on to say that while no one could doubt that by education and training the chemists' craft is a profession, the open shop constitutes them traders. "Co-ordination" is dinned into one's ears until one almost tires of hearing it. If the pharmacists' organisation is imperfect, why not mend it? He admitted that a weakness of the Pharmaceutical Council is the need of territorial representation, and expressed himself in favour of such representation and the reconstruction of the Local Associa-

tions Executive. But education is all-important, and he would like to see the standard of the Preliminary examination raised to that of the London Matriculation; and he strongly favoured a curriculum. He would urge every endeavour to prevent the title "chemist" being filched from those who are the only people entitled by statute to use it. In conclusion he appealed for a spirit of optimism and of conciliation towards those with whom they were not always in agreement, and a cessation of any friction which might be thought to exist between North and South. A good discussion followed, in the course of which Mr. F. P. Sargeant approved of the remarks as to the co-operative movement and the Chamber of Trade, but did not think the craft offered sufficient remuneration to satisfy the man who would go through an examination of the standard of the London Matriculation; which opinions were supported by Mr. H. Gilleghan. Mr. J. Hayes asked, If pure pharmacy cannot go round, why all this talk about Matriculation? Far better teach bookkeeping and business methods, so that a man could make a living. Ideals and realities were very far apart at present. Messrs. R. T. Silson, F. E. Burdett, J. H. Beacock, A. Rothstein, W. Johnson, and Roberts joined in the discussion, and, in reply, Mr. Deakin said that when the scheme of reorganisation now under consideration is brought forward it will be of a sweeping nature and something more than an ideal on paper. The Council is not perfect, but the best of men are only men, and if desirable it can be changed. Mr. Deakin was heartily thanked for his address.

London (S.E.).—The South-East London Pharmacists' Association met at Maitland House, Greenwich, on December 4, Mr. A. J. Wing (President) in the chair. The Secretary reported that 37. 10s. had been subscribed by members in support of the funds of the Early-closing Association. Mr. C. Happold, Ph.C., who was unable to attend the meeting, sent a paper on the *B.P.C. Addendum (War Emergency Formulary)*, criticising and commenting on the new publication. Most of the members present had not received copies of the work, but a lively discussion followed, and it was resolved that all retail sales of B.P. preparations should be according to the 1914 edition unless special attention was drawn to any alteration both verbally and by label; and that in the case of repeat prescriptions the B.P. 1914 should be followed except where the patient's or doctor's attention is drawn to any change—this also to apply to new scripts not marked "W.E.F." The question of a rota for late Insurance dispensing was discussed, and it was decided that the compulsory closing-hours under the Shops Act constitute reasonable hours of service. Mr. G. F. Corral has resigned from the Committee, owing to leaving the district, and a letter was ordered to be sent to him expressing regret at his resignation and wishing him success. The Venereal Disease Act was afterwards discussed, and the Secretary reported on the recent meetings of the Pharmaceutical Committee and the Executive.

London (W.).—A meeting of the Western Pharmacists' Association was held at Frascati's Restaurant, Oxford Street, W., on December 12, Mr. W. E. D. Shirtliff (President) in the chair. Reports of meetings of the Pharmaceutical Committee and the London County Executive were read by Mr. C. A. Noble, and a letter from the Pharmaceutical Society, explaining the position of certain official preparations of opium, was read by Mr. C. H. Hampshire. After a brief discussion and an interval, a lantern-lecture was given by Mr. J. P. Gilmour, Editor of the "Pharmaceutical Journal," on *Pre-War Executions in Ireland and Scotland*. Mr. Gilmour, at the outset, expressed his appreciation of the loan of several slides by Mr. W. L. Howie (The British Drug Houses, Ltd.), which fully justified the high praise he bestowed upon them. The lecture dealt with romantic scenery unfamiliar, for the most part, to a Southern audience, and the beauties of the districts traversed were pointed out with apt historical and personal allusions. Frequent ripples of laughter greeted the lecturer's witty asides, and his comprehensive selection of typical views and incidents of travel was much appreciated by the members and visitors present, among whom were several ladies. A vote of thanks was carried by acclamation on the motion of the President, who expressed the hope that a further instalment of Mr. Gilmour's experiences in the Highlands would be available on a future occasion.

Newcastle.—The monthly meeting of the Newcastle-upon-Tyne and District Pharmacists' Association was held on November 28 at the Church Institute, Newcastle. The meeting was an open one, and a number of trade matters were discussed, including the sale of venereal remedies, with which Mr. Flemming dealt from the moral and legal points of view, and an interesting discussion ensued. All the pharmacists in the district are invited to attend these meetings.

Chemical Society.

At the meeting held at Burlington House, Piccadilly, London, W., on December 6, Dr. F. L. Pyman, director of the Wellcome Chemical Research Laboratories, delivered a lecture on *The Relation between Chemical Constitution and Physiological Action*. He said the relation between chemical constitution and physiological action occupies a definite and important place in the study of drugs. Chemical investigation of a drug begins with the attempt to isolate the principle to which its activity is due. Then follow the determination of its constitution and the synthesis of a number of substances more or less closely related to the parent compound and comparison of their physiological action. The wideness of the term physiological action—covering as it does any action on the living organism—renders its discussion difficult. It is impossible, for instance, to compare the bactericidal action of phenol with the hypnotic effect of diethylbarbituric acid or with the anæsthetic action of cocaine. Moreover, the same superficial signs of physiological action may be due to widely different causes. Everyday examples of physiological action are not lacking. Compounds of similar constitution generally possess a characteristic group smell—for instance, the lower fatty acids—while each member may have a specific odour, which in this case serves to distinguish the individual members from formic to valeric acids. Sense of taste also provides an occasional means of discrimination, not only between side chains of different length—*p*-ethoxyphenyl-carbamide being sweet while the higher alkyloxyphenyl-carbamides are not—but also in certain cases between stereoisomerides; *d*-histidine, for example, tasting sweet, while *l*-histidine is tasteless. Stereochemical influences often exercise profound effects, particularly on nerve-endings. Thus *l*-hyoscyamine has about 100 times the mydriatic action of *d*-hyoscyamine and *l*-adrenine many times the pressor effect of the dextro-compound. Asymmetry of a nitrogen atom may also condition a difference, as in the case of the α - and β -methochlorides of *l*-canadine. The cause of this variation still remains in doubt. In one instance—that of β - and ϵ -cholestanol—Windaus has noted that the difference in their power of inhibiting the hæmolytic action of saponins—digitonin, for example—is accompanied by an equally great difference in their ability to combine with digitonin. The close relation of the cholestanols with cholesterol gives special importance to this observation, and it may be that in other cases also the action of stereoisomerides varies according to their ability to combine with the constituents of the nerve cells. The influence of physical properties, such as solubility in different media, may be of importance, and Meyer and Overton have shown that for a particular series of aliphatic compounds their narcotic effect on tadpoles was proportional to the partition coefficient of their solubilities in oil and water. An indication of the effect of chemical properties is afforded by the work of Ehrlich, who showed that while certain basic dyes stained the grey nerve substance their sulphonic acids did not. This difference suggested that bases, liberated in the bloodstream by alkali, are extracted by the nerve substance, while their sulphonic acids remain in solution as alkali salts. He also adduced examples showing a change of action when certain basic drugs are converted into derivatives containing free acid groups or into quaternary salts. In the case of alkaloids it is a general rule that the introduction of a free carboxyl group profoundly modifies the physiological action. Benzoyl ecgonine, of which cocaine is the methyl ester, has no local anæsthetic action; while quinine, obtained from quinine by oxidation of the vinyl group, is non-toxic. Formation of quaternary salts has also a considerable effect. For instance, papaverine has a strychnine-like action which is missing in its methochloride and reappears in its reduction-product laudanose. In the many cases in which members of a group of compounds of similar constitution resemble one another in physiological action it is of interest to observe the effect of slight chemical alterations. Dr. Pyman then outlined four such pieces of work—viz., researches on the tropeines, the aminoalkyl esters, adrenaline and the amines, and protozoacidal drugs.

A189 is the title of a substitute for salvarsan which has been produced by Drs. Jacobs and Heinelberger, of the Rockefeller Institute.

BRAZILIAN BUSINESS.—The British Chamber of Commerce in Brazil has issued a booklet containing suggestions for the improvement of British trade with Brazil, compiled from the reports of various Sub-Committees and other information placed at the disposal of the Chamber by its members.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

DENTISTS ACT COMMITTEE.

Our Parliamentary correspondent understands that representatives of the unregistered dentists gave evidence on December 12 before Mr. F. D. Acland's Dentists Act Committee at the Privy Council.

GLYCERIN-WORKERS' WAGES.

Mr. Anderson called the attention of the Minister of Munitions to the low and inadequate wages that are being paid to workers with Ryan & Co., Cork, who are contractors for the supplies of glycerin for explosives. The reply was that the firm is not a controlled firm, but that an inquiry would be made regarding the wages paid.

GERMAN TRADE CONTROL.

During the debate on the second reading of the Non-ferrous Metal Industry Bill in the House of Commons on December 11, Mr. Glyn-Jones, who was in favour of the Bill, gave instances of German control of industries which the Bill is designed to stop as regards non-ferrous metals. He mentioned the dealings that took place over the Travancore Mineral Co., which enabled Germans to limit the amount of thorium nitrate which British manufacturers could use. Reference was also made to the way the German Government had fostered the dye-industry in Germany so as to squeeze out competitors and make German military plans for a world-war possible. Bayer & Co., Elberfeld, sold synthetic carboic acid at 6½d., a figure unquestionably below the cost of production, but this was doubtless on the instruction of the Government. The second reading was carried.

Company News.

G. B. KENT & SONS, LTD.—A dividend has been declared at the rate of 5½ per cent. per annum upon the preference shares payable on January 1.

S. F. GOSS, LTD.—The twenty-second annual general meeting was held on November 29, when a dividend of 12½ per cent. was declared, inclusive of the 5 per cent. interim dividend paid last February.

IDRIS & CO., LTD.—The report for the year ended October 31, 1917, states that the profit, after charging interest on debentures and writing off all depreciations, is 4,274l., as compared with 2,078l. Taking into consideration the very great difficulties in carrying on a business of this character owing to the war, the directors think the result is fairly satisfactory. Owing to the exceptionally high cost of all materials, labour, transport, etc., together with the table-water tax, it was necessary considerably to increase prices to cover these additional charges. The effect of this has tended to diminish the general demand for mineral waters. The sugar restrictions have also very seriously affected the business, as during the summer months the company were unable fully to meet even the reduced requirements of their customers. The goodwill has been reduced from 12,758l. to 5,000l. The amount written off—namely, 7,758l.—has been debited to reserve account, which now stands at 12,184l. The directors recommend a dividend of 3 per cent. on the "A" preference shares, leaving to be carried forward 4,721l.

KEEPS LTD.—The fifteenth annual meeting was held on December 7 at 24-26 Holborn, E.C. Mr. W. Shepperson, F.C.S., presided, and in the course of his remarks said: "Although the sales show a material increase on any previous year's trading, to the extent of several thousand pounds—which is equivalent to 20 per cent. increase—the profits have not increased in the same ratio. This is owing to the largely increased cost of raw materials, which in some instances is more than double what it was at this time last year. We certainly have made increases in our selling prices to compensate for this, but not in proportion to the increased cost of production, as we hope and believe this state of affairs cannot go on for all time, and we think it better policy to leave our prices undisturbed as long as possible, even though we have to carry some of the loss." Speaking in regard to Vitamogen, the new food, the Chairman said that "it is used in a very large number of hospitals in the Army and Navy, and by hundreds of medical men in their practice. We have equipped and established a little factory quite close at hand, which is now in daily working." The balance-sheet and accounts to October 17, 1917, submitted were adopted, and a dividend at the rate of 15 per cent. per annum was declared.

Pharmaceutical Society.

AN evening meeting of the North British Branch was held at 36 York Place, Edinburgh, on December 5, Mr. David Gilmour presiding. The CHAIRMAN, in opening the proceedings, said that the practice of pharmacy was never on a purer or higher standard than it is to-day. Mr. D. B. DOTT, Ph.C., F.I.C., then read a *Note on Solubility*, in which he made additional observations to the previously known fact that the amorphous condition is an important source of discrepant statements as to the solubility of alkaloidal salts. An amorphous non-deliquescent residue is obtained when morphine sulphate is evaporated with sufficient sulphuric acid to form the acid salt, and there is evidence that the acid salt is formed. This amorphous salt dissolves to the extent of nearly 1 in 1 of water, and then gradually deposits crystals of the neutral sulphate until the solution is about 1 in 24—practically the recognised solubility of ordinary sulphate. Far stronger solutions are obtained with the amorphous than with the crystalline salt, but the only true solubilities are those having reference to the crystalline compounds. A sample of pure white emetine hydrochloride dissolved in nine parts of water soon becomes cloudy from the formation of crystals, and requires three parts more of water to clear it. In assaying opium by the B.P. process some of the morphine hydrate crystallises on the side of the bottle as if it separated from the ether in which it is normally nearly insoluble. It can be shown, however, that morphine is at first taken up by the ether, and is another case of the nascent and amorphous condition giving an apparently abnormal solubility. Mr. DOTT also read a note on the *Test for Methyl Compounds in Ether*, in which he showed that the results vary with the sample of fuchsin employed. The fuchsin should be standardised against a solution of some methyl compound—e.g., ether mixed with 0.2 per cent. (volume) of wood naphtha of Excise standard—when it should give a distinct violet-blue colour in ten minutes. Formaldehyde solution was also suggested as a test for the sensitiveness of the fuchsin solution. Mr. MERSON, Dr. WATT, and Mr. LOTHIAN discussed these two papers. Dr. H. E. WATT then read a paper on *The Melting-point of Allantoin*, which he found to be 235° C., when it melts with decomposition. In the discussion Mr. STOUT said he had recently obtained a m.p. of 234° C. Dr. WATT mentioned that the m.p.s of natural and synthetic allantoin are identical. Mr. GEO. ELLIOT then read a paper on an *Incompatible Tar Ointment*, in which he established the fact that zinc oxide is hopelessly incompatible with ung. picis, B.P., a hard mass like Burgundy pitch being formed after an hour. The same author dealt with *Ung. Aq. Rose*, B.P., in which he showed that borax is an unnecessary addition, and also that it is disadvantageous owing to reactions with medicaments which it may be desired to add to the cold-cream. Referring to the zinc-and-tar ointment, Mr. BOA suggested neutralising the tar ointment as a means of avoiding the hardening. The addition of borax to cold-cream is the procedure of a lazy man. Mr. LOTHIAN said that various cements are made with wood tar and zinc oxide, so that the hardening referred to is not remarkable. Dr. WATT wondered why a formula for cold-cream containing borax found its way into the Pharmacopœia. He thought that practical pharmacists should consider the incompatibilities that were indicated by such an addition. The CHAIRMAN pointed out that there is no direct control by practical men in the compilation of the British Pharmacopœia. Mr. J. RUTHERFORD HILL then gave a *résumé* of the *Regulations Affecting Pharmacy* under the Defence of the Realm Act, in which he directed attention to the ambiguous phraseology and to the danger that some of these emergency regulations, framed without technical guidance, may become permanent. Votes of thanks were accorded to the authors of the papers.

At the Counter.

FROM A JOHANNESBURG PHARMACY: inplussplumpy. We have seen worse efforts.

FROM THE NOTTINGHAM DISTRICT.—2 Camel eyebrows; Extra Vitrel; 3d. Sos. De, Sal, C, So.

MORE IRISH PROBLEMS.—A Dublin pharmacist sends us the following: Vegetable laxting Pill; Bottle layseul; half P galish.

THEY DO BUT JEST.—Birmingham panel patient, handing script to pharmacist: "Here you are, mister—book of the waerds."

Trade Notes.

ERASMIC TOILET-SOAPS.—The prices of Erasmie toilet-soaps are increased from 4½d. and 1s. 1½d. to 5d. and 1s. 3d. The price increase does not refer to Erasmie shaving-stick.

"SANOID" FIRST-AID.—Cuxson, Gerrard & Co., Ltd., Oldbury, illustrate in their advertisement in this issue the "Sanoid" first-aid cases for factories, in which the company has specialised for some time past.

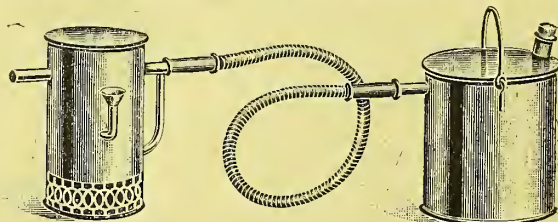
SOUTHAL'S PAGE.—Will our subscribers please note that in the advertisement in this issue of Southall Bros. & Barclay, Ltd., the trade price of No. 3 first-aid cupboard should be 37s. 6d., and the retail price of No. 2 42s.?

CONTROLLED MATERIALS.—A copy of the useful list of controlled materials which has been prepared by The British Drug Houses, Ltd., Graham Street, City Road, London, N. (C. & D., December 8, p. 40), can be obtained on application. It is well worth fixing up in a prominent place in the pharmacy.

PEARS' ANNUAL, which, despite many difficulties, has been published this year, is a capital Christmas Number for the home. There are three large pictures given with the Annual, two in colour and one a photogravure. The whole work is produced in this country, and is a striking testimony of the progress made by British printers in this class of work.

THE P.A.T.A. PROTECTED LIST was extended during November by the addition of boralcum; eau de Levathol; Erasmie solidified brilliantine; Eucalturp preparations; Evansol ointment; Harley's "Three Salts" (additional); International Chemical Co.'s goods (additional); Lysol Ltd., goods (additional); Martindale's goods (additional); Pond's goods (additional); Savory & Moore's goods (additional); M. Smith & Co.'s goods (additional); Taylor's malt preparations; Waveurl liquid and powder.

SAVARS "VAP."—The advertisement in this issue of Evans Sons Lescher & Webb, Ltd., refers to a new vaporiser for use in the treatment of influenza and affections of the nose and chest. The vaporiser, known as the Savars "Vap."



is on a new principle, which can be followed by reference to the accompanying illustration. The kettle is half-filled with boiling water, which is afterwards kept boiling on a gas-jet or fire. When steam issues from the side tube, it is connected by means of the flexible metal tube with the vaporising vessel. Inside the "Vap" is a compartment filled with cotton-wool, which is medicated with friar's balsam or other soothing liquid. The steam passes through the medicated wool and then into the atmosphere, impregnating the air of the sick-room. We have examined the working of the apparatus and find it acts well. The cost is 4s., the retail price 5s. 6d., and we consider the vaporiser good value for money. To encourage chemists to send a trial order outward carriage is paid.

Information Department.

INFORMATION WANTED.

194/60. "H.S." henna sham-	207/10. "Poudre de Muguet"
poo-powder: makers.	(Benoit Frères).
206/1. "Antalgic" powders.	210/20. "Ideal" rubber hot-
206/19. "Pynka" polishing	water bottle.
tablets or powder.	

INFORMATION SUPPLIED.

Curieones, 184/68	Neal's Olivine, 155/69
"Curlash" cream, 148/61	Pray's Parker "Rosaline,"
"Cuticura" specialities, 150/66	139/22
"Cystazol" tablets, 187/19	Pulmoserum (Bailey), 187/9
Darasse Frères' products (Lon-	Sugar of milk, 140/69
dron agents), 210/14	Summer's eastor-oil pills,
Gum Ghatti, 158/25	210/21
Gutta-percha tissue, 176/53	"Syko" toilet-paper, 162/40
Morphine, 164/6	"Synol" soap, 194/25

Observations and Reflections.

By Xrayser II.

I Rejoice to Note

the growing agitation for a better profit on patents, and would urge the few men who decline to join with the rest in demanding it to reconsider their attitude. It may be true that in exceptional circumstances or by an exceptional man patents can be made to yield a satisfactory profit, but this is not the case generally, at least as regards a considerable number of articles, and in this, as in other matters, every pharmacist ought to have an eye to the welfare of the whole craft as well as to his own. Those especially who cry out for "organisation" and union are in consistency bound to act as members of a body. The question for us is not the price of patents, but the price of our own services, with all that this term includes. Let us take a lesson from the labour market, for in this matter we are working for those whose goods we handle. There is one way, and ultimately only one, in which Labour can obtain an advance in wages. It is by striking; but to be effective the strike must be a general one, and it is precisely so with us. If those for whom we sell will not pay us for doing it, we must refuse to sell. I have found, even as an individual pharmacist, that it is quite possible to do this without injury to my general business; the public is not such a fool as to expect anybody to work for nothing; but, of course, individual action has little or no effect on proprietors. It would be very different if the whole trade refused to handle any goods that do not bear a sufficient profit to make it worth while. The rate of profit would not, of course, have to be the same in every case, but a minimum of net profit ought to be exacted on every article. Is such a general agreement possible? A friend tells me it is not. If the fact is so we deserve our fate, and to talk about "organisation" is mere vapouring.

Mr. W. C. Anderson, M.P.

for Attercliffe, Sheffield, did not get much by his questions in the House of Commons with regard to glycerin and syrup substitutes, but he made one thing quite plain and another plain enough to justify the other. It is obvious that the questions indicate a suspicion on the part of many Insurance patients that they are in danger of being treated with drugs inferior to those supplied to non-panel patients, and the refusal of Sir Edward Cornwall to answer the question directly addressed to this point lends some colour to the suspicion. It may be true that the proper and efficient treatment of disease is in no way affected by the issue of this new Formulary, but it ought, if admitted at all, to be of universal application. It is my personal opinion that "Syrupus Factitius" is an unsatisfactory substitute for the syrup it displaces, and that the directions for making it are stupid, but these are other points; good or bad, sauce for the goose ought to be sauce for the gander. The grave injury that is done to the practice of pharmacy when official bodies, without shame, designate as glycerins and syrups preparations free from glycerin and sugar is what troubles those who have the real interests of pharmacy at heart. This lowering of the moral plane by official bodies degrades all those who are in the drug-trade.

The Opium Difficulty

has all along been exceedingly troublesome, especially to careful pharmacists anxious to carry out the law. I had myself noted the points you drew attention to last week, and have frequently refused to sell opium and plain opium pills even to old customers. I confess, however, that I have felt justified in dispensing a prescription for opium specially procured for the purpose and presented to me by a patient. It now appears that even this is illegal, and that we are to be compelled to resort to subterfuge to carry out what is perfectly legitimate business, the refusal of which would often, as in the Grimsby case reported last week, be simply inhuman.

Why is it left to the *C. & D.* to drag all these points into the light of day and to make suggestions to get them rectified? One would have expected that the officials at the Square, who have time for every fad that cranks can think of, would now and again lift a little finger to protect the genuine interests of pharmacists, especially as they are supposed to stand so well with the War Office and the Government. But no; the curriculum must be resurrected and flirtations carried on with the Institute of Chemistry, the result of which, if successful, would be still further to deplete our ranks of our best men!

"The Long Arm of Coincidence"

played a nasty trick on the Army and Navy Co-operative Society in the aloin compound tabloid affair. We are assured that "the greatest possible" care to avoid such irregularities is taken both in receiving articles into stock and in selling them, yet one bottle of a preparation that ought to have been labelled slips through this double safeguard unlabelled, and the agent of the Pharmaceutical Society on his first application has this identical article handed to him. Mr. Thomas Hardy could hardly have beaten that in a Wessex novel, and it almost justifies Oscar Wilde's paradox that fact is a gross plagiarist of fiction. It is not an isolated case of the kind, as I happen to know, a friend of my own having once suffered in almost exactly the same way (or so he said); and the moral is plain; having taken "every possible care" we must still be as careful as if no care had been taken.

A Leading Soap and Perfumery House

has issued a notice to the effect that henceforth orders will be accepted only on the condition that the goods shall be invoiced at the prices current on the day of despatch, and I am told that other houses are following suit. This is a monstrously unfair condition, and ought to be universally resisted. With markets going up by leaps and bounds as they now are, and the present uncertainty as to the time of despatch, nobody will know how to buy or what he is letting himself in for. There ought at least to be a stipulation that no goods shall be despatched until the buyer has been informed of the price to be charged and has accepted the terms. It might easily happen that prices had doubled since the order was sent.

"Dragon's Blood"

is a name that attracted me on the first day of my apprenticeship, and my first inquiry was, how did it originate? It was long before I found a full answer. Even Wootton, who says the dragon was only associated with pharmacy by means of the "blood" which took his name and was at one time popularly supposed to be yielded by him, adds that he knows of no authority in support of this. Probably he did not go further in his search than the Oxford Dictionary, which, curiously enough, though it quotes from Hakluyt for the earliest instance of the name in English, does not give that portion of the passage referred to which explains it. It is in the account of the second voyage to Guinea, undertaken in 1554. The writer is speaking of the "continual warre" between the dragon and the elephant, and relates how the elephant, when overcome, "falleth downe on the serpent, being now full of blood, and with the poise of his body breaketh him: so that his owne blood with the blood of the elephant runneth out of him mingled together, which being colde, is congealed into that substance which the Apothecaries call Sanguis Draconis, (that is) Dragons blood, otherwise called Cinnabaris." This is evidently founded on Pliny, whose account is worth quoting: "The Greeks . . . call minium cinnabar, whence arose an error through ignorance of the names, for that is the name they give to the *saries* (blood) of the dragon crushed by the weight of dying elephants, the blood of both animals being mingled, as we learn; and there is no other colour which in a picture can properly represent blood. That cinnabar is very useful for antidotes and medicines. But, by Hercules! doctors, because it is called cinnabar, use this minium, which we shall show presently is poison" ("N.H.," 33, 38).

Peroxide of Hydrogen

(H₂O₂)

KINGZETT'S PRESERVED QUALITY.

INVALUABLE

1. As a wash for wounds, ulcers and sores.
2. For use in midwifery cases.
3. As a gargle in cases of sore throats.
4. As a mouth-wash.
5. For application in cases of bites from venomous insects.
6. For removing fruit stains from linen.
7. As an air purifier (by spray), &c.

SOLD IN 10 VOLUMES STRENGTH, AND PUT UP IN

16-oz. bottles, retailing at 1/6 each.

8	"	"	1/-	"
4	"	"	9d.	"

Also in Bulk.

Trade Prices and Leaflet on application.

The "SANITAS" Co., Ltd., Limehouse, London, E. 14.

S.V.R. — S.V.M.

AND

CHEMISTS' WINES.

Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E. 11

CHEMICALS.

We solicit your inquiries for—

Crushed Linseed (Mumford's quality, finest obtainable), Whole Linseed, Starch Powders (Maize, Wheat, Rice and Potato), Glauber Salts, Hypo, Bi-Carb. Soda, Sulphur, Fuller's Earth, Tart. and Citric Acids, Cream Tartar, Kaolin, Liquorice Pdr. and Juice, Epsom Salts, Boracic Acid, &c., &c. Also 1d. Pkts. Fuller's Earth, Violet Pdr., Starch Pdr., Liquorice Pdr., Nursery Pdr., Boracic Acid Pdr., &c.

Sole Proprietors of "Pylitna Powders," the internal specific for Hemorrhoids. Special terms for co-operation.

G. S. MUMFORD & SONS, FARRINGTON ROAD, LONDON.

An announcement of particular interest to you appears in this issue on page i.

FRENCH AND ALL FOREIGN

Proprietary

MEDICINES

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Export and other Buyers should apply for a List.
Foreign prescriptions dispensed for Pharmacists.

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PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

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REGINALD W. BARKER.

Sugar is not required—if

Ketchers' Concentrated Liquors

are used in place of the corresponding Syrups.

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Danger of Formula Disclosure.

THE directions for filling up the forms issued with the applications for licences to export goods contains the following paragraph (5):

When applications are made in respect of compound articles containing prohibited ingredients or of articles sold under purely trade names, the exact composition of the goods should be stated as well as the purpose for which they are to be used.

The Director of the War Trade Department has recently issued a further notice that applications are being received for export of compounded articles without the particulars required by paragraph 5 being given. The circular states:

Care should therefore be taken in all cases to state:

(1) The percentage of any export-prohibited ingredient entering into the composition of the article.

(2) The exact nature of any prohibited ingredient—e.g., starch should be described as rice-starch, maize-starch, or as the case may be; and, similarly, sugar should be described as cane-sugar, malt-sugar, etc.

The applicant is also required to state whether the article was made up before or after the date upon which the ingredient or ingredients became prohibited from export. There is no reasonable objection to supply these particulars, as they are necessary for the purpose of efficient control of the exports of the country in war-time. We desire, however, to call attention to a further paragraph in the circular which is as follows:

Should manufacturers not be disposed to disclose their formula on every individual application, or should they not desire to inform their merchant customers of the formula, it is open to them to write a separate letter to the War Trade Department stating full particulars of the formula, and requesting that a registered number may be allotted to the formula, which can be quoted in respect of any future applications. Any alteration of the formula should at once be notified to the War Trade Department. The registered number should not, however, be quoted upon an application unless it is accompanied by a note that the compounded article has been prepared in strict accordance with the formula.

This is speciously worded, and we hear that a few manufacturers have complied with the invitation here given, unaware apparently that by so doing they are endangering their business in the particular "compounded articles." We do not think any makers of well-known proprietary articles have been so foolish as to deposit their formulae, as the possible effect of such action has been pointed out many times within the past few years. In the first place,

the War Trade Department is a temporary organisation, and no one can guarantee that the composition of the proprietary articles will not be disclosed. It will be remembered that before the Select Committee on Patent Medicines it was demonstrated conclusively that it is impossible to analyse accurately vegetable compounds, and in at least two cases it was shown that so-called analyses by the British Medical Association and by the Government Laboratory were incorrect. If a deposited formula should be disclosed there is the possibility that the proprietary rights, often of great value, would be lost. It is sometimes not sufficiently understood that the making and selling goods prepared according to another's private recipe is lawful on discovery of the secret thereof, provided that the secret was not acquired by fraud and that care is taken not to pass off the goods as being those of the original maker. If the formula were acquired fraudulently the Courts would grant an injunction, and there are legal methods of preventing "passing off." It may be urged that no Government Department would ever be likely to disclose a deposited formula, and that therefore the manufacturer is quite safe. This child-like faith in Government Departments is comforting, but those who have had a wide experience of Government officials know that these men have all the failings of ordinary men, and often, in addition, a bureaucratic bearing which does not preclude the display of malignancy should the occasion offer. Our advice to manufacturers of proprietary articles is to be wary of depositing their formulae with anybody, Government or otherwise, as it is practically impossible to protect the information against leakage. Government Departments have had a fine innings during the war, and manufacturers and exporters have from patriotic motives put up with the blight of officialism, but we doubt if there is a manufacturer who does not hold the firm conviction that war restrictions must be abolished so soon as peace is declared. The numberless regulations and the continuance of bureaucracy would speedily destroy the export trade of the country if continued in peace-time. The matter is closely wrapped up with opposition to the Imports and Exports (Temporary Control) Bill, referred to in the *C. & D.*, December 1, p. 44, and all business men should urge their Parliamentary representatives to secure the withdrawal or modification of this Bill so as to prevent the continuance of the restrictions which would make export trade impossible in peace-time.

Dextrin and Farina.

AMONG the many things the war has taught us is the fact that when a former source of supply of certain materials or produce has been cut off steps have been taken (more often successfully than not) to obtain those articles elsewhere. This is true in regard to potato-starch products like dextrin and farina, for which we were formerly dependent upon Holland, Germany, and Poland. Our imports of farina previous to the war were from 40,000 to 45,000 tons per annum, Holland supplying about half and Germany one-third, but the shipments from the Netherlands have steadily fallen away since 1914. Japan, which formerly had practically no export trade in starch products to Europe previous to the war, has stepped into the breach, and at the present time about five-sixths of the total quantity imported into the United Kingdom is sent by that country, as the following official figures for the past three years show:

	1914 Cwt.	1915 Cwt.	1916 Cwt.
Germany	208,695	40	179
Netherlands	586,898	260,790	27,482
Belgium	17,256	—	—
Austria-Hungary ...	10,807	—	—
Japan	—	46,231	307,197
U.S.A.	1,713	59,146	27,055
Other foreign countries	7,768	1,106	490
British Possessions ...	520	6,269	3,170
	833,657	373,582	365,873

Japan, it may be said, has now a grip of the market that will make competition difficult after the war. It will be seen, however, that there is a considerable deficiency

in the imports compared with the pre-war period, and this accounts for a remarkable rise in prices. For a period of ten years before the war the average prices of superior sifted Dutch farina (which was a standard product) were from 10*l.* to 11*l.* per ton c.i.f. U.K., whereas at the present time Japanese farina, approximate to Dutch superior sifted, commands 53*s.* to 55*s.* per cwt. in London, and the quality is stated to be quite satisfactory both in regard to body and colour, although the trade prefers the granulated variety, which is not so far being produced in Japan. What range of prices is likely to prevail after the war is largely a matter of conjecture, but round about 25*l.* per ton is suggested as likely when trading is normal. We understand that steps are being taken to develop the manufacture of farina in Ireland by the installation of factories in potato-growing centres. It would appear remarkable that the manufacture has not been taken up in the United Kingdom before, but the explanation is that Holland and Germany had such large supplies of potatoes available that both dextrin and farina could be produced at a cost far below that possible in this country. Moreover, the Dutch and German industries were completely organised and worked all the year round. It need hardly be said that the Lancashire textile manufacturers are the largest industrial users of farina, but the consumption for edible purposes in view of wheat-saving is going ahead. As regards our imports of dextrin or calcined potato-flour the United States has since the war taken the place of Germany and, to a less extent, the Netherlands, as may be seen from the following figures:

	1914 Cwt.	1915 Cwt.	1916 Cwt.
Germany	29,596	—	—
Netherlands	40,073	83,586	32,363
U.S.A.	21,062	94,458	92,490
Other countries	364	—	6,608
	91,095	178,044	131,461

We understand that the imports during 1917 have been much larger than for the three previous years, as the use of dextrin for industrial purposes has latterly increased. Of late Canada has been looking into the question of supplying the United Kingdom with dextrin and farina on a larger scale, but so far the colour and cleanliness have not been equal to those of the German, Dutch, or Japanese makes.

Making Pharmaceutical Preparations in Bond.

THE Straits Settlements seem to be the first part of the British Empire to provide generally for the manufacture of spirituous medicines in bond. The Pharmaceutical Association at Singapore has been working at the matter for a long time, Mr. G. W. Crawford putting strenuous and untiring vigour into it (use of duty-free spirit being an essential); and his successor in the secretaryship, Mr. T. M. Maben, informs us that permission was gazetted in the following terms:

"The following fee is prescribed on account of the use of the laboratory situated in the premises of the Government opium-factory at Telok Blanga for the making of pharmaceutical preparations by members of the Straits Pharmaceutical Association. . . . \$1.00 per day or part thereof."

This is of special interest. The matter has long been discussed at home, so far as pharmaceutical preparations are concerned, but drawback on exportation has been the chief preventive of the reform. Duty-free spirit is used in other manufactures, and even in the production of perfumes for export, and it is to be hoped that this Straits stimulus will prevent home manufacturers forgetting what can be done by "strenuous and untiring effort."

THE fact that in every Zeppelin and aeroplane bomb wound examined at Charing Cross Hospital and the Petrograd Hospital, the *V. aerogenes capsulatus* was demonstrated makes us suspect that the outer casing of the bomb must have been infected with a culture of this micro-organism. If such be the case, science has surely never before been made to serve so fiendish a purpose.—*British Medical Journal.*

War Regulations Affecting the Drug-trade.

The number and variety of the regulations made under the Defence of the Realm Act are so great that it is as difficult to remember them all as it is to grasp their full effect on the drug-trade. To enable our subscribers to keep in touch with these, we have endeavoured in the following notes, arranged in alphabetical order to bring together all the War Regulations which directly or indirectly affect the trade. References are given, in most cases, to the numbers of THE CHEMIST AND DRUGGIST where fuller information is given on the various subjects. These monographs do not deal with import and export regulations, for which THE CHEMIST AND DRUGGIST DIARY, 1918, should be consulted.

Acetate of Lime (Grey) is classified as "an important constituent of military explosives" in which dealings are restricted under Defence of the Realm Regulation 30A (*C. & D.*, May 13, 1916, p. 48). Applications for licences to buy, sell, or deal in in the United Kingdom should be addressed to the Director of Propellant Supplies, Ministry of Munitions, 32 Old Queen Street, London, S.W. 1.

Acetic Acid was placed under control of Regulation 30A of the Defence of the Realm Act by the Ministry of Munitions in September 1917 (*C. & D.*, September 29, p. 34). The original Order was subsequently amended in October (*C. & D.*, October 6, p. 33) to cover "acetic acid of all strengths," this including glacial. Applications for permits should be addressed to the Director, Chemical Section, Trench Warfare Supply Department, St. Ermin's, Westminster, London, S.W. 1. Wholesale houses are allowed to supply to a chemist, without a licence, quantities of 7 lb. of glacial or 28 lb. of 80-per-cent. or the equivalent of other strengths (e.g., 56 lb. acid. acetic, B.P.) during any one calendar month.

Acetone was classified as "an important constituent of military explosives" on February 8, 1916 (*C. & D.*, February 12, p. 34; February 19, p. 45; February 26, p. 53; June 17, p. 44), and dealings in it are subject to the restrictions imposed under Defence of the Realm Regulation 30A. Applications for licences to buy, sell, or deal in in the United Kingdom should be addressed to the Director of Propellant Supplies, Ministry of Munitions, 32 Old Queen Street, S.W. 1; but it is exceedingly difficult for a chemist to obtain a licence, as supplies are under strict control and the use of acetone for technical or medicinal purposes (apart from direct war-work) is vetoed.

Advertising Circulars.—See Circulars.

Alcohol.—*Rectified Spirit* can only be obtained by wholesale druggists on a signed declaration that it is to be used for "absolutely medical purposes" and is resold in small quantities on obtaining a like undertaking. *Address*: Alcohol Committee, Propellant Supplies Branch, Ministry of Munitions, 32 Old Queen Street, Westminster, S.W. 1; Secretary, Sir W. H. Rattenbury.

Methylated Spirit.—In October 1917 the Ministry of Munitions decided that mineralised and industrial spirit can only be supplied for direct war-purposes or essential medicinal preparations, a written undertaking to this effect being required from the pharmacist by his wholesale house or methylator. Methylated spirit or finish obtained on these conditions may not be sold for burning, household purposes, or toilet-preparations, perfumery, etc. (*C. & D.*, October 13, p. 44). Applications should be made to the Propellant Supplies Branch, Ministry of Munitions, 32 Old Queen Street, Westminster, S.W. 1. The delivery of spirit from bond is regulated by the Intoxicating Liquor (Output and Delivery) Order, which limits the use of spirit for home consumption, but exempts from the operation of the Order spirit used for making medicines by doctors, hospitals, and chemists. In regard to alcohol in medicated wines and spirituous medicines, see Medicated Wines.

Aluminium.—Regulation 30A was applied to dealings in aluminium on December 2, 1916, the classes and descriptions of the metal including aluminium powder and aluminium bronze as used in photography and for the manufacture of aluminium paint. For permits apply to the Director of Materials, Ministry of Munitions, Armament Buildings, Whitehall Place, London, S.W. 1.

Ammonium Sulphate.—Prices for the home trade were fixed (*C. & D.*, June 16, p. 49, and July 7, p. 49). *Address*: Sulphate of Ammonia Distribution Committee, Food Production Department, Board of Agriculture, 72 Victoria Street, S.W. 1.

Ammonium Molybdate.—See Tungsten.

Antimony.—Dealings in this metal are controlled by Regulation 30B.

Arrowroot.—By the Maize, Barley, and Oats (Restriction) Order arrowroot may not be used or treated for any other purpose except for human food.

Artificial Eyes.—Stocks of artificial human eyes had to be declared to the Director of Optical Munitions and Glassware Supply, 117 Piccadilly, London, W. 1 (see *C. & D.*, June 9, p. 34), who regulates the supply from the manufacturers under the Glass and Glassware Order (see *C. & D.*, January 13, p. 33, and September 29, p. 33).

Benzene, Toluene, and Xylene.—Small quantities are supplied without a licence. Applications for permits should be made to the Explosives Department, Ministry of Munitions, Storey's Gate, Westminster, S.W. 1.

Benzin.—See Petrol.

Bleaching-powder.—In December 1916 the Ministry of Munitions appointed the Bleaching-powder Users' Committee, under the chairmanship of Col. Alan Sykes, M.P., to advise and consult with the Munitions Department as to the needs of the users of bleaching-powder. *Address*: Secretary of the Committee, 4 Norfolk Street, Manchester.

Bottles.—These come within the Glass and Glassware Order (see *C. & D.*, January 13, p. 33, and September 29, p. 33), being specified as "glass vessels manufactured for the purpose of containing reagents, drugs, medicines, pharmaceutical or biological substances or preparations." The Order applies to bottles obtained from the manufacturers.

Calcium Acetate.—See Acetate of Lime.

Calcium Carbide.—At the present time supplies in this country are very precarious, and the Ministry of Munitions has intimated that the whole of the stocks and supplies are required for direct war-purposes. The Ministry took possession of all stocks in the U.K. except those of under 56 lb. (*C. & D.*, September 29, p. 33), and prohibited dealings except under a permit. Applications in reference to the Order are to be made to the Controller of Non-ferrous Materials Supply, AM2/H, Hotel Victoria, Northumberland Avenue, London, W.C. 2, and marked "Calcium Carbide." The Controller, Priority Department, Ministry of Munitions, 1 Caxton Street, Westminster, S.W. 1, deals with applications for permits.

Calendars for gratuitous issue for the year 1918 which were printed or partly printed before September 10, 1917, may be issued notwithstanding the prohibitions on advertising circulars (*q.v.*). Calendars, almanacks, and diaries must not contain more advertising matter than they did for the year 1917. The prohibition mentioned under circulars (*q.v.*) applies to diaries, almanacks, and calendars, these being included in the expression "advertising circulars."

Carnauba Wax.—The Army Council on July 11 intimated its intention of taking possession of all stocks, excepting those of less than 2 tons (*C. & D.*, July 21). In November, however, it was intimated by the Army Council that the Order does not apply to yellow carnauba wax (*C. & D.*, December 1, p. 49). No quantity of over

1 cwt. may be supplied to one customer. Applications for permits should be addressed to the Director of Army Contracts, Room 79, Imperial House, Tothill Street, S.W. 1.

Castor Oil.—The qualities used pharmacy are now reserved for aircraft-lubricating purposes. Applications for licences should be made to the Military Aeronautics Department, Air Board Office, Hotel Cecil, Strand, London, W.C. 1. (See also Oils and Fats.)

Catalogues.—See Circulars.

Celluloid.—The possession of celluloid, xylonite, and cinematograph-film is controlled by Regulation 35 of the Defence of the Realm Act. An Order applying to London, made on October 14, 1914, allows a maximum quantity of celluloid to be in the possession of any person without a permit. Orders referring to cinematograph-films have been made for London, Birmingham, Leeds, and Nottingham.

Chemical Glassware.—Permits for the supply of chemical glassware, glass tubing and rod, and other kinds of glassware are obtainable from the Director of Glassware-supply, Ministry of Munitions, 117 Piccadilly, London, W. 1 (see *C. & D.*, January 13, p. 33, and September 29, p. 33).

Circulars.—Advertising circulars (which includes catalogues and price-lists) can only be issued up to January 31, 1918, provided the total weight used (including the envelopes or wrappers) between August 20, 1917, and January 31, 1918, does not exceed one-third of that used by the person by or on whose behalf the same were issued or despatched within the United Kingdom between August 1, 1916, and January 31, 1917. A general permit, however, allows trade catalogues and price-lists to be issued up to January 31, 1918, without reckoning the same in the weight of paper referred to above. The Order does not apply to circulars despatched to persons abroad. See *C. & D.*, December 8, p. 42.

Clinical Thermometers.—These come within the definition of chemical glassware (*q.v.*).

Coal-tar Products.—An Order was issued by the Ministry of Munitions on October 31, 1916 (*C. & D.*, November 11, 1916, p. 36) requiring all persons engaged in the production, manufacture, purchase, sale, or distribution of any coal-tar or coke-oven by-products (including in particular tar, carbolic crystals, benzol, toluol, ammoniacal liquor, and sulphate of ammonia) to furnish to the Minister of Munitions such particulars as to output, working of plant, cost of manufacture, sales, deliveries, stock in hand, purchases, and prices as may be required on his behalf, such particulars to be furnished in such form and at such intervals as may be required.—As from October 1, 1917 (*C. & D.*, September 8, p. 33) an Order was issued by the Ministry of Munitions prohibiting the supply or the acceptance of or attempt to obtain delivery of any crude benzol, crude naphtha, or light oils containing recoverable quantities of benzol or toluol, except by licence. Applications to the Director of Raw Materials Supply, Ministry of Munitions, Department of Explosives Supply, Storey's Gate, Westminster, S.W. 1.—An Army Council Order was issued on April 11, 1917 (*C. & D.*, April 21, p. 33), requiring certain named firms to place at the disposal of the Army Council the whole output of (1) the high-boiling tar acids capable of being produced at the said factories from such blast-furnace creosote oil as may be supplied to them by or on behalf of the Director of Army Contracts between April 16, 1917, and July 15, 1917; and (2) such spent oil as may remain over from the manufacture of such high-boiling tar acids. These acids are employed in the manufacture of lysol.

Cocaine.—Dealings in cocaine, "all preparations, salts, derivatives, or admixtures prepared therefrom and therewith and containing 0.1 per cent. (one part in a thousand) or more of the drug, or any solid or liquid extract of the coca-leaf containing 0.1 per cent. or more of the drug" are strictly controlled by the Cocaine and Opium Regulations (see the *C. & D. Diary*, 1918, p. 75, and *C. & D.*, November 3, 1917, p. 34). The conditions of the general permits regarding dental anæsthetic solutions containing

cocaine and cocaine solution for first-aid in factories are given in the *C. & D. Diary*, 1918, p. 75, and the formula for the cocaine eye-solution employed in factories in the *C. & D.*, May 12, p. 34.

Coffee.—The Food Controller has issued an Order, which came into force on December 10, by which the maximum retail price of roasted or ground coffee is fixed at 1s. 6d. per lb. and that of raw coffee at 1s. 4d. On condition, however, that a trader has coffee on offer at these rates and is willing to sell it, he may sell better qualities of roasted or ground coffee at any price not exceeding 2s. 6d. per lb., and of raw coffee at any price not exceeding 2s. 4d.

Compound Fertilisers.—The Ministry of Munitions fixed, as from October 17, maximum prices for compound fertilisers, the terms being given in the "London Gazette" (October 16), arranged according to the aggregate value of the nitrogen, phosphate, and potash contained in the fertiliser.

Copper was on June 5, 1916, specified as a metal for the production of war-materials under Regulation 30c, but dealings in the metal had previously been included in the Regulation. In this way and by means of the control of sulphuric acid the production of *Copper Sulphate* is limited. The makers' prices for British agricultural purposes only for next year were given in the *C. & D.*, December 1, p. 48. In March 1917 the Food Production Department of the Board of Agriculture fixed the retail price at 6½d. per lb., and this ceased on July 31, the Board then suggesting that "8d. is not an excessive price in England and Wales."

Employees.—Statements of all male employees of sixteen years of age and over have to be made in definite form and posted up "in some conspicuous place on the premises," and a copy is required to be delivered to the recruiting officer, and "during the first week in each calendar month a written report, showing any alterations and additions" down to the last day of the preceding month (Regulation 41a, Defence of the Realm Act).

Ether.—The amount available is limited, but there has so far been no actual famine (Mr. C. A. Hill). See also Alcohol.

Fertilisers.—See Ammonium Sulphate, Compound Fertilisers, and Superphosphates.

Formalin.—All stocks of formaldehyde solution, 40 per cent., were taken over by the Army Council on April 28, 1917 (*C. & D.*, May 5, p. 42), and although this Order has not been cancelled, formalin can now be freely imported. Stocks are released by the Customs after Government requirements have been satisfied.

Gelatin Capsules.—A list of the gelatin capsules in the manufacture of which it is permitted to employ glycerin was given in the *C. & D.*, April 14, 1917, p. 42.

Glass Eyes.—See Artificial Eyes.

Glucose may not by the Maize, Barley, and Oats (Restriction) Order (May 2, 1917) be made from maize, barley, or oats. Under the Cake and Pastry Order (April 18, 1917), which restricts the quantity of sugar that may be employed in making cakes, etc., "sugar" includes glucose. Regarding the uses to which glucose can be put see *C. & D.*, June 9, p. 43.

Glycerin.—The sources of glycerin have been under the control of the Government since the outbreak of war, prices paid to the producers being fixed. The restrictions have gradually been made stricter, and the manufacture of chemically pure glycerin stopped entirely. The sale of glycerin by retail has not been prohibited, but stocks have been practically exhausted, and only small quantities are allowed to be released for the manufacture of glycerin suppositories or for injection. Applications for permits should be made by chemists to the Director of Propellant Supplies, 32 Old Queen Street, Westminster, S.W. 1, and if permits are granted the glycerin is obtained from wholesale druggists.

Goldbeater's Skin.—Bung gut skins or goldbeater's skins in the unmanufactured state were brought by Admiralty Order within Regulation 30a on March 19, 1917. Applications for permits to deal in these should be addressed to the Director of Navy Contracts, Admiralty, London, S.W. 1.

Guaiacum-wood, or *Lignum Vitæ*.—Dealings in quantities of over 50l. worth per calendar month cannot be made without a permit.

Lactic Acid.—Technical lactic acid which is used for tanning and other industrial purposes is under the control of the Director of Raw Materials (Leather Supplies), and cannot be dealt in without a licence. *Address*: Imperial House, Tothill Street, London, S.W. 1.

Lard.—The official control of lard was the subject of an Order in Council dated August 29, 1917, which, *inter alia*, fixed wholesale maximum prices (*C. & D.*, September 8, p. 33). The Bacon, Hams, and Lard (Distribution) Order (dated November 24, 1917) gives the Food Controller power to control the distribution, disposal, and use of lard.

Lead Compounds.—Dealings in lead were controlled by Regulation 30A, but on April 6, 1917, a further Order dealt with the compounds (*C. & D.*, April 14, p. 33). The compounds include dry white lead, red lead, litharge, oxide of lead, acetate of lead, etc. Quantities of not more than 28 lb. per calendar month may be sold without permit. Applications for permits should be made to the Director of Materials, A.M. 2/E, 8 Northumberland Avenue, London, W.C. 2. See *C. & D.*, September 8, p. 44.

Lozenges.—The Sugar (Confectionery) Order fixes the maximum price of chocolate and sweetmeats at 3d. and 2d. per oz. respectively, but "cachous and lozenges of a class manufactured for and sold by chemists prior to or during the year 1916 are not sweetmeats within the meaning of the Order" (see *C. & D.*, February 10, p. 43).

Malingering.—Regulation 40c of the Defence of the Realm Act makes it an offence for men under orders to report for medical examination to employ drugs to malingering or feign any disease or infirmity. It is also an offence for any person to supply a drug or preparation for the same purpose.

Malt Extract.—Restrictions on the use of malt have been made by various Orders with a view of controlling the brewing of beer. Manufacturers of malt extract for medicinal purposes are allowed supplies by arrangement with the Food Controller.

Medicated Wines.—By an Order of the Central Control Board (Liquor Traffic), made under the Defence of the Realm Act, medicated wines and any mixture or preparation containing a drug or medicament must state on the label the amount of proof spirit contained therein. This does not refer to (a) preparations in the British Pharmacopœia, or in the B.P. Codex, (b) signed prescriptions of medical practitioners, or (c) medicated or methylated spirits or spirits made up in medicine and sold by medical practitioners or chemists or druggists (see *C. & D.*, July 15, 1916, p. 34).

Mercury.—Supplies have been under strict Government control since the war broke out, and are unobtainable unless a Class "A" certificate can be produced from the Priority Department, Ministry of Munitions, 1 Caxton Street, Westminster, S.W. 1.

Methylated Spirit.—See Alcohol.

Narcotic or Stimulant Drugs.—The sale of certain drugs is prohibited, by an Order made May 11, 1916, under Regulation 40, to members of the Forces unless on the prescription of a registered medical practitioner (several conditions have to be observed). A full explanation of this important Order was given in the Coloured Supplement, September 22, and is printed in *The Chemist and Druggist Diary*, 1918, p. 89.

Nitroglycerin was on June 16, 1916, classed as a military explosive under Regulation 30A. Applications for permits should be addressed to the Secretary (M.I. 6D), War Office, London, S.W. 1.

Oatmeal.—The maximum price at which various cereal products can be sold was fixed by the Oat and Maize Products (Retail Price) Order, and since revised (*C. & D.*, November 17, p. 33). The Order allows the Food Controller to vary the price for proprietary brands—e.g., Robinson's groats are to be sold at a maximum of 1s.

per 1-lb. tin, 6d. per ½-lb. tin, and 3d. per ¼-lb. packet—the consumption to be restricted so far as practicable to invalids and children (see *C. & D.*, September 22, p. 44, and October 27, p. 42).

Oilcakes.—The Food Controller has extended his control over the oil-crushing and oilcake industries, and has taken possession, from December 1, of all stocks of seeds, nuts, and kernels, exceeding 5 tons of any one variety, held in the United Kingdom (*C. & D.*, December 8, p. 50). Crushers and makers of oilcake and of hardened fats are required to place at the disposal of the Food Controller the stocks of their several manufactured products and residues in hand on December 1 and those produced subsequent to that date.

Oils and Fats.—An Order was issued by the Ministry of Munitions on May 1, 1917 (*C. & D.*, May 5, p. 33), prohibiting dealing in certain specified oilseeds, nuts, kernels, oils, and fats, except under licence from the Ministry of Munitions. Maximum prices were fixed (*C. & D.*, May 12, p. 33, and June 30, p. 34), but many of them have since become inoperative, as there are buyers of practically all seeds and oils at maximum rates. *Address*: The Director, Oils and Fats Branch, Department of Explosives Supply, Ministry of Munitions, Storey's Gate, Westminster, S.W. 1.

Olive Oil.—An Order was issued on December 4, 1917, prohibiting the use of olive oil for the production of tops in woollen manufacture without a permit. See also Oils and Fats.

Opium.—The sale of "raw, powdered, or granulated opium" is prohibited, except to authorised persons, by the Cocaine and Opium Regulation (see *C. & D. Diary*, 1918, p. 75, and *C. & D.*, November 3, p. 34). An explanation of the regulation was given in the *C. & D.*, December 8, p. 44. See also Narcotic or Stimulant Drugs.

Petrol (including Benzin).—The supply is controlled by the Petrol Control Department, 19 Berkeley Street, London W. 1.

Phenacetin.—All stocks of phenacetin, except those of less than 7 lb., are under the control of the Army Council, the official notice in regard to which was issued on April 28, 1917 (*C. & D.*, May 5, p. 42). A return of stocks exceeding the above quantity has to be made to the Director of Army Contracts, Imperial House, Tothill Street, Westminster, S.W. 1.

Picric Acid was on June 16, 1916, classed as a "military explosive" under Regulation 30A. Applications for permits should be addressed to the Secretary (M.I. 6D), War Office, London, S.W. 1.

Platinum was on December 31, 1915, and May 31, 1916, included in the war-materials controlled by Regulation 30A. Applications for permits in connection with platinum metal or its salts should be addressed to the Director of Materials, A.M.2, 8 Northumberland Avenue, W.C. 2.

Posters.—Those which were in stock on October 22, 1917, if not exceeding 2,400 sq. in. in superficial measurements (e.g., 60 in. by 40 in.), may be exhibited. [General licence issued November 8, 1917, under the Paper Restriction (Posters and Circulars) Consolidation Order, 1917.] Otherwise posters containing any advertisement, etc., with respect to goods may only be exhibited at the retailer's premises where the goods are offered for sale, and they must not exceed 2,400 sq. in. in measurements.

Potash Compounds.—On October 17 the Ministry of Munitions issued an Order controlling potash caustic, carbonate (includes pearlashes and potashes), chloride, and sulphate (includes chrome alum and potash alum), or any mixture containing more than 10 per cent. of any one or more of these salts (e.g., pulv. ipecac. co.; but liq. potassæ, containing only 5 per cent. KHO, is not included). Sales by wholesale druggists and others were limited to 3 lb. per person in the aggregate during any one calendar month without licence. Subsequently (*C. & D.*, December 1, p. 33) the Controller of Potash Production announced that until further notice he licensed the purchase by any person of potassium compounds coming within the terms of the Order, notwithstanding that such

purchases may exceed an aggregate of 3 lb. per month, provided that the compounds so purchased are used solely in B.P. form or in B.P. preparations for purely medicinal purposes. By this general licence retail chemists and druggists, hospitals and similar institutions, medical men, and others are relieved of the onus of applying for individual licences to purchase compounds coming within the conditions indicated in italics above, and wholesale druggists and others may supply such compounds for use as above set out without the necessity of ascertaining that the purchaser holds an individual licence to purchase or take delivery. The address of the Controller of Potash Production is Ministry of Munitions, 117 Piccadilly W. 1.

Price-lists.—See Circulars.

Proprietary Medicines containing alcohol require to have the amount of proof spirit therein stated on the label. See Medicated Wines.

Quicksilver.—See Mercury.

Quinine.—The Army Council issued an Order on April 28, 1917, taking possession of all stocks of quinine sulphate exceeding 100 oz., bisulphate, hydrochloride, and bihydrochloride exceeding 25 oz. The market is still under Government control, but there is no difficulty in pharmacists obtaining their usual supplies. The Director of Army Contracts, Imperial House, Tothill Street, Westminster, S.W. 1, is the official authority.

Rectified Spirit.—See Alcohol.

Russian Flax or Tow.—Section 30A of the Defence of the Realm Regulations was applied to dressed or undressed Russian flax or tow. Applications for licences should be addressed to the Director of Army Contracts, Raw Materials Section, Imperial House, Tothill Street, London, S.W. 1.

Sago, Rice, Tapioca.—The retail selling prices of these have been fixed by the Food Controller.

Sodium Nitrate.—An Order was issued by the Ministry of Munitions (*C. & D.*, October 27, 1917, p. 34) applying Regulation 30A of the Defence of the Realm Act to sodium nitrate, thereby making it "war-material." Applications should be addressed to the Department of Explosives Supply, Ministry of Munitions, Storey's Gate, Westminster, S.W. 1.

Sodium Tungstate.—See Tungsten.

Spirit.—See Alcohol.

Spirituous Medicines.—In regard to declaration on the label of the amount of proof spirit, see Medicated Wines. "Medicated and methylated spirits or spirits made up in medicine and sold by medical practitioners or chemists or druggists" and medicine made up from a "signed prescription of a medical practitioner" are exempted from the regulation.

Starch.—The Wheat, Rye, and Rice (Restriction) Order (April 20, 1917) prohibits the use of these cereals for any other purpose than the manufacture of articles suitable for human food. This covers the use of the cereal starches, but potato starch is not included in any Order, and can hence be employed in pharmacy or in the manufacture of toilet-preparations. It was, however, stated in the House of Commons, on December 4, that action would not be taken in cases where cereal starches are used as a diluent for compound liquorice-powder.

Sugar.—The supply of sugar for domestic use is regulated by local Food Committees, from whom particulars can be obtained. Sugar for use by chemists in their business comes under the regulations governing the supply to manufacturers. Wholesale manufacturing druggists are allowed (by an Order of the Food Controller, June 1, 1917) 50 per cent. of the quantity of sugar used during 1915. For the quantities allowed to other manufacturers see *C. & D.*, June 23, p. 46. (See also *C. & D.*, August 11, p. 43, September 15, p. 44, and September 22, p. 43.)

Sulphur.—The Ministry of Munitions fixed prices of imported sulphur in lots of not less than 5 tons in May 1917 (*C. & D.*, May 12, p. 50). Address: Sulphur Committee, Ministry of Munitions, Explosives Department, Storey's Gate, S.W. 1.

Sulphuric Acid.—An Order issued by the Ministry of Munitions on July 11, 1917 (see *C. & D.*, June 2, p. 49), placed this industry entirely under Government control. The maximum prices were fixed on January 1, 1917 (see *C. & D.*, January 6, p. 53). The principal point of interest to pharmacists is that not more than 56 lb. of 95-per-cent. sulphuric acid, or its equivalent in other strengths, can be supplied to any one person during any one calendar month without a licence. Applications for licences exceeding this quantity should be made to the Director of Acid Supplies, Ministry of Munitions, Department of Explosives Supply, Storey's Gate, London, S.W. 1.

Superphosphates.—An Order was issued by the Ministry of Munitions on August 20, 1917 (*C. & D.*, August 25, p. 33), fixing maximum prices for superphosphate of lime in bulk.

Tea.—A true statement of the net weight must be given on the wrapper of packed tea [Tea (Net Weight) Order, April 5, 1917]. The Ministry of Food in November fixed the maximum retail prices of tea as under: Grade A, 2s. 4d. per lb.; B, 2s. 8d. to 3s.; C, 3s. to 3s. 4d.; D, 4s. There is also a certain amount of uncontrolled tea which may be sold at 4s. per lb., but the stocks will probably be exhausted by the end of the year.

Thermometers.—The supply by the manufacturers is only allowed by permit. See Chemical Glassware.

Tin was on June 5, 1916, specified as a metal for the production of war-materials under Regulation 30c. By this Order the production of tin salts is controlled.

Tobacco.—Stocks of tobacco in bond are required to be declared to the Tobacco Control Board, 7 Whitehall Gardens, London, S.W. 1 (see *C. & D.*, June 2, p. 34). The maximum prices for tobacco, snuff, and cigarettes are those prevailing on May 1, 1917.

Toluene.—See Benzene.

Tungsten.—An Order applying Regulation 30A to tungsten ores, molybdenite and metal products therefrom was made on November 30, 1917. This Tungsten and Molybdenite Order covers quantities of tungsten and molybdenum salts of over 28 lb. Permits to deal in these materials are obtainable from the Controller of Non-ferrous Materials Supply, A.M. 2/K, Ministry of Munitions, 8 Northumberland Avenue, London, W.C. 2.

Vegetable Parchment Paper.—Stocks of over 10 cwt. have to be declared and permits obtained to deal in quantities of 10 cwt. and over. Address: Director of Army Contracts, Room 35A, Imperial House, Tothill Street, London, S.W. 1.

Whale Oil (other than sperm oil) was brought under Regulation 30A on June 24, 1916. A general permit was issued on May 1, 1917, to deal in quantities of under 25 tons without a licence. Applications for permits should be addressed to the Controller of Oils and Fats, Ministry of Munitions, Great George Street, Westminster, S.W. 1.

White Flour.—For particulars as to the supply of white flour for invalids, see *C. & D.*, October 27, p. 34.

Wines.—See Medicated Wines.

X-Ray Tubes.—The supply from the manufacturers is regulated by the Glass and Glassware Order (see Chemical Glassware).

Xylene.—See Benzene.

Zinc was on June 5, 1916, specified as a metal for the production of war-materials under Regulation 30c. Dealings in the metal had previously been covered by the regulation. In this way the production of zinc oxide and zinc salts is controlled.

BLAST-FURNACE DUST.—The Board of Agriculture and Fisheries have issued as Food Production Leaflet No. 23 an account of the use of blast-furnace dust as a potash manure. The dust can only be obtained from approved agents, and it is sold at fixed prices.

SOLUBILITY OF BULLETS.—An account of an interesting research by Mr. T. Maltby Clague, Ph.C., and Mr. A. J. Watson, Ph.C., is given in the "British Medical Journal" (II., 1916, p. 757) on the solubility of lead and antimonial lead bullets in the fluids of the human body. It is shown that danger so far as the retention of shrapnel in the body is concerned is due to the lead and not to the arsenic and antimony which are used with lead in making bullets.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have rail way carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, December 13, 3 p.m.

WITH the approach of the end of the year business is evidently slackening off, although in some quarters rather more trading has been done than is usually the case at this period. This applies to fine and pharmaceutical chemicals, in which there is a fair general inquiry, but as a rule buyers are reluctant to contract for forward delivery, in view of the uncertain political outlook. Almost needless to say, the bulk of values is on the upward trend. This week we have to report an advance in ammonium carbonate, gallic acid, milk-sugar, and pepsin. Formaldehyde is firmer, likewise acetanilide and methyl salicylate. The cheap parcels of bromides having been cleared, leaves the way for a hardening market. On the easier and lower side are phenacetin, resorcin, benzonaphthol, calcium lactate, and menthol. Other changes include an advance in colocyth and Chinese galls on the spot. Copper sulphate is easier for export, and Chinese crude antimony on the spot is dearer. An interesting announcement is made by the Shipping Controller in regard to supplies of shellac from India. Canary-seed is slightly easier; cumin is steady; coriander and fenugreek are quiet, with rather more plentiful supplies. Castorum was in slow demand at the annual auctions, prices being much lower. Turpentine has been excited, and is much dearer.

Higher	Firmer	Easier	Lower
Ammon. carb.	Acetanilide	Canary-seed	Aloes (Cape)
Antimony, cr.	Cascara	Copper	Benzonaphthol
(spot)	sagrada	sulphate	Calcium
Colocyth	Formaldehyde	Ipecacuanha	lactate
Gallic acid	Methyl	Kola	Castorum
Galls	salicylate	Menthol	Resorcin
(Chinese)	Quillaia	Phenacetin	
Honey	Valerian		
Milk-sugar	(Belgian)		
Pepsin			
Shellac			
Turpentine			

Cablegram.

NEW YORK, December 13.—Business in chemicals and drugs is quiet. Peppermint oil in bulk is lower at \$3.40 per lb. Mexican sarsaparilla has been advanced to 60c. Jalap is lower at 40c., and cascara sagrada is firmer at 13½c. Balsam tolu has advanced to 75c.

ACETANILIDE.—Supplies are becoming scarcer, and the market is firmer at 4s. 6d. per lb. on the spot; American prices are higher.

ACETIC ACID.—Supplies of pure are coming along very slowly, and the Government is doling them out very sparingly, so that the trade is being starved.

ACETIC ANHYDRIDE.—Although a Swiss make has advanced to 12s. per lb., one of the U.S. makers is still selling at 8s. 9d.

AMMONIA CARBONATE.—The basis price has been advanced 1d. per lb. by the makers, who quote 7½d. per lb. net in 200-lb. casks for lump, and 7¾d. for powdered, free delivered; smaller packages extra.

ANISEED.—Russian is quoted 80s. per cwt. on the spot.

ANISE OIL, STAR, is steady at 4s. 4d. per lb. on spot for "Red Ship" brand. In the drug-auction a lot of 25 cases

"Red Ship" brand in prize offered and 10 cases sold at 4s. 2d., the congealing point being 16.5.

ANTIMONY.—Owing to scarcity spot holders of Chinese crude are asking an advance of 2l. to 46l. per ton; no c.i.f. offers are being made.

ASPIRIN has still a weak tendency at from 13s. 6d. to 13s. 9d. This gradual reduction in prices must be disconcerting to a number of makers here, because values are not excessive having regard to cost of production.

BALSAM TOLU.—Small sales have been made at 4s. 6d. on the spot.

BELLADONNA-ROOT.—A limited quantity of good French (about 4½-per-cent.) is offered at 5s. 3d. per lb. on the spot.

BENZOATES.—The tendency still continues upward, and from 15s. 6d. to 15s. is still quoted for benzoic acid and 14s. 6d. to 15s. for benzoate of soda, although the American parity is slightly higher than the foregoing.

BENZONAPHTHOL is lower at 44s. per lb. net on the spot.

BROMIDES.—The cheap parcels which were hawked about now appear to have been cleared, and prices are approximating more closely to those ruling in the U.S.A. Potash crystals is 6s. 6d. to 6s. 9d., sodium 3s., and ammon. 5s. net.

CAFFEINE.—The nominal value of the pure crystals is 50s. for homo trade requirements, but second-hand values are from 55s. to 56s., with afloat offering at 52s. 6d.

CALAMUS-ROOT is offered at 165s. per cwt. for a parcel just arrived.

CALUMBA.—Nothing appears to be offered from first-hands, and in second-hands only a very limited quantity can be had, 180s. being quoted for good washed sorts. The London drug statistics list for November, however, reveals a stock of 297 bags.

CANARY-SEED is slightly easier at 130s. per quarter for good Morocco.

CASCARA SAGRADA is firmer, all the cheap parcels having been absorbed, and holders now ask 107s. 6d. to 110s. per cwt. for three-year-old. According to the drug statistics the London stock on November 30 was 54 tons only, against 98 tons in 1913.

CASSIA OIL.—Sales of 80 to 85 per cent. c.a. have been made at 6s. 3d. on the spot.

CASTORUM.—At the annual auction held on Wednesday, 2,088 lb. offered, and, with a slow demand, about 300 lb. only sold at a considerable decline on last year's sales' rates. The sales comprised a few seconds at 22s., thirds at 11s. to 12s., and pickings at 7s. to 8s. 6d. per lb. No supplies were offered by the Hudson's Bay Co.

CELERY-SEED.—Value is nominal in the absence of supplies.

CHLORAL HYDRATE is firm at from 11s. to 11s. 3d. net for crystals, duty paid.

CITRIC ACID is steady at from 3s. 2d. to 3s. 3d., with business at both figures. In the drug-auction 8 casks of crystals were bought in at 3s. 3d., the highest bid being 2s. 11d. per lb.

CLOVE OIL.—Although cloves are weaker the oil has not been affected, and distillers are firm at from 16s. 9d. to 17s. per lb. In the drug-auction 22 cases offered in prize and 10 sold at 16s., the remainder being limited at 17s. per lb.

COLOCYNTH.—Good pale apple is dearer at 1s. 9d. per lb. on the spot, the rise in freights being the cause.

CORIANDER-SEED is quiet at 82s. 6d. per cwt. for Morocco, 74s. for Russian, and 60s. for East Indian.

CUMIN-SEED is steady at 67s. 6d. per cwt. for fair sifted Morocco.

DILL-SEED is unchanged at 59s. per cwt. for good East Indian.

ERGOT is firm, sales including Portuguese at 2s. 6d., and for rather weevilly Russian 2s. 6d. is also wanted. Spanish is held for 3s. In the drug-auction 20 bags of small sound Portuguese were limited at 2s. 6d. per lb. net.

FENNEL-SEED is quoted 57s. 6d. per cwt. for fair East Indian.

FENUGREEK-SEED is quiet at 46s. 6d. per cwt. for Morocco. East Indian is quoted 45s. per cwt.

FORMALDEHYDE is again firmer, but there is no occasion to pay more than from 140s. to 145s. per cwt. for 40-per-cent. on the spot. The Government requirements remain large, and they reserve the right to take imports over as they arrive, but, notwithstanding this, a certain amount is released and passes into "free" trade.

GALLIC ACID.—In view of the increased price of galls, makers have raised their quotations to 5s. 6d. to 5s. 9d. Best *levis* tannic acid is 7s. 9d. to 8s. net.

LEMON OIL.—Demand continues very slow, and is likely to be so in view of the sugar and spirit shortage; spot value of genuine is 4s. 3d. per lb.

LIME OIL is flat, with fair West Indian offering at 7s. per lb. In the drug-auction three cases of W.I. hand-pressed were limited at 18s. per lb.

LIQUORICE-JUICE remains extremely scarce, and arrivals of parcels sold to come forward are very slow in taking place. A limited quantity of block is offered at 295s. per cwt. A lot of 50 cases genuine block juice in prize sold in auction at from 317s. 6d. to 337s. 6d. per cwt., the bulk being at the higher price.

LIQUORICE-ROOT.—No common natural appears to be available on the spot, and for cut extremely high figures are asked.

MENTHOL is easier, with Kobayashi-Suzuki offering at 13s. 3d. per lb. on the spot, and for menthol and oil combined 15s. 9d. c.i.f. is quoted for afloat.

METHYL SALICYLATE shows a hardening tendency owing to the high cost of one of the constituents; dealers quote from 4s. 6d. to 4s. 9d. net on the spot.

MILK-SUGAR is dearer and very scarce, with sales of Dutch at 277s. 6d. and 280s. asked.

OPIMUM.—The position remains as last week, Persian being unable to compete with the Indian drug, another 200 cases of which have arrived. In further reference to our remarks on Indian opium in last week's issue, we understand that sufficient supplies have now come to hand, and are actually available for January delivery. A leading firm expresses the opinion that there is now no reason to anticipate any material advance in prices.

PEPPERMINT OIL.—Finest English distilled from the growers is offered in limited quantity at 85s. per lb.

PESIN is dearer at 27s. 6d. per lb. for B.P. quality.

PHENACETIN.—Competition still continues, and it is difficult to maintain the spot price of 40s., business having been done at slightly less; the lower price should stimulate consumption.

PYRAMIDON.—Limited supplies are coming forward with fair regularity, quite sufficient to meet the demand; values are from 65s. to 67s. 6d. net to arrive.

PYROGALLIC ACID.—Crystals are quoted at from 15s. 6d. to 16s. 6d. and resublimed at 18s. net.

QUICKSILVER.—Although there is no apparent change, with quotations standing at from 20l. to 20l. 10s. per bottle, some people profess to know that conditions should become a little easier, possibly in anticipation of improved supplies. It is hardly likely, however, that Government permits will be issued more freely for anything outside of direct war-work.

QUILLAIMA is firmer at 52s. 6d. per cwt. on the spot for whole and 60s. for crushed; in Liverpool about 50s. is quoted ex store in quantity.

QUININE.—No offers appear to be coming forward from the makers at the moment, and the market is getting rather short of supplies. Some fairly substantial consignments have arrived within the past fortnight, all of which have been distributed. The quotation in second-hands is 3s. 3d. per oz. for sulphate.

RESORCIN.—Demand is very small, and as raw material is plentiful prices are rather lower at 50s. per lb. net.

SACCHARIN.—Spot values continue wide, with sales of 550 strength at from 340s. to 380s. per lb., as to seller. Considerable delays take place in the execution of orders from the U.S.A.

SALICYLATES.—The present position does not attract large buyers, but it is possible that if raw material should at any time become short the position might undergo a sudden change. Present prices are moderate compared with what they have been, and there does not seem much risk in contracting for the next three or four months; salicylic acid is 6s. to 6s. 3d. and sodium salicylate B.P. powder 7s. to 7s. 3d. net on the spot.

SALOL is steady at 9s. 6d. to 9s. 9d. per lb. as to seller and quantity.

SASSAFRAS OIL.—True American is very scarce on the spot at from 5s. 6d. to 5s. 9d. per lb., with no supplies coming forward owing to shipping difficulties.

SENEGA is steady at from 4s. 3d. to 4s. 6d. net on the spot.

SHELLAC has been quiet and of a nominal character, but prices are about 10s. dearer, usual standard TN Orange quality closing at 360s. per cwt. on the spot. The following interesting announcement is made in regard to the allocation of freight on shellac from India: The London Shellac Trade Association has received a communication from the Ministry of Shipping offering facilities of shipping shellac to the U.K. In accordance with this decision the Calcutta Lines have been instructed to allocate space for the carriage of a monthly quantity of 200 tons of shellac, which room will be proportionately open to the regular shippers of this material. The Lines have been told to maintain the allocation of space until further instructions are issued.

TARTARIO ACID is firm at from 3s. 0d. to 3s. 1d. on the spot.

TURPENTINE has shown a strong advance throughout,

amounting to about 11s. 9d. per cwt. on the week, American on spot closing at 127s. 9d. per cwt.

VANILLIN has been in good demand at between 60s. and 62s. 6d. per lb., with some quoting 65s. for 100-per-cent.

ZINC CHLORIDE.—There is a fair demand for this product, which is used largely in Lancashire for textile purposes and also in other directions, while orders are also occasionally booked for export to India. The current price for the home trade is about 120s. for solid and 130s. to 140s. per cwt. for powdered.

London Drug-auctions.

London Commercial Sale Rooms,

Mincing Lane, E.C., December 13.

There was a better demand than usual at the auctions to-day in spite of the approach of the end of the year, but few price changes were made. Cape aloes were in plentiful supply but quite neglected, although importers had reduced their prices. Curaçao aloes also failed to sell, but are held for full rates; likewise good new crop Socotrine, in kegs. No Sumatra benzoin offered and Palembang thirds were held for extremely high prices. Cardamoms continue of no interest, and for a rather poor parcel of cascarrilla very high rates were paid. Seeds like coriander, dill, and fenugreek were more plentiful, but there were no buyers. Zanzibar drop dragon's-blood continues to realise high prices, and previous rates are maintained for Siam gamboge. Honey was again a feature of the sale, the demand being sustained throughout, and prices showed an irregular advance of from 7s. 6d. to 20s. per cwt. The tendency of ipecacuanha is, if anything, easier, although the trade demand was again filled by an unusually large quantity of sea- and grease-damaged. Kola is slightly on the easier side. Myrrh brought previous firm rates, and for Mogador orris higher prices were paid. Rhubarb is quite neglected, and sarsaparilla of all descriptions attracted little interest. Tinnevely senna continues slow but steady, and for bees-wax there was little demand, the tendency for Jamaica being easy.

The following table shows the quantity of drugs offered and sold:

	Offered	Sold		Offered	Sold
Aconite (Jap.) ...	10	0	Gentian ...	8	0
Agar-agar ...	1	0	Gum acacia ...	72	36
Ajowan-seed ...	100	0	Henna ...	37	0
Almonds ...	22	0	Ipecacuanha—		
Aloes—			Cartagena ...	12	0
Cape ...	131	0	Matto Grosso ...	42	13
Curaçao ...	50	16	Jalap ...	10	0
Socotrine and			Kola ...	136	112
Mocha ... (kgs.)	54	1	Lime-juice ... (pns.)	26	0
Ammoniacum ...	5	0	Lime oil ...	3	0
Anise, Russ. ...	40	0	Liquorice-juice ...	50	50
Anise oil, star ...	35	10	Lobelia ...	1	0
Anatto-seed ...	71	0	Mace oil ...	0	0
Belladonna-root ...	15	0	Madder ...	2	*2
Benzoin—			Matico ...	30	0
Palembang ...	22	0	Menthol ...	10	0
Siam ...	16	0	Mint oil ...	3	3
Buchu ...	5	1	Myrrh ...	18	16
Camphor ...	20	0	Nux vomica ...	586	51
Cannabis ind.—			Olibanum ...	20	20
African ...	42	1	Orange-peel ...	20	20
Cardamoms ...	92	0	Orris ...	29	29
Cascarrilla ...	25	7	Poppy-seed ...	25	0
Cashew-nuts ...	23	0	Rhatany ...	20	0
Citric acid ...	8	0	Rhubarb (Ch.) ...	51	0
Citronella oil ... (drms.)	5	5	Sandarac ...	5	0
Clove oil ...	22	10	Sarsaparilla—		
Coca-leaves ...	10	6	Grey Jam. ...	21	1
Cochineal ...	11	0	Honduras ...	5	0
Coriander-seed ...	450	0	Lima-Jam. ...	3	3
Cubebs ...	76	26	Native Jam. ...	29	0
Ontlefish-bone ...	52	0	Senna and pods—		
Dill-seed ...	300	0	Alex. ...	51	0
Dragon's-blood ...	23	2	Tinnevely ...	469	54
Elemi ...	10	0	Squill ...	12	0
Ergot ...	20	0	Stramonium ...	12	12
Eucalyptus oil ...	30	10	Tragacanth ...	210	0
Fennel-seed ...	303	3	Turmeric ...	150	0
Fenugreek-seed ...	100	0	Valerian (Belg.) ...	14	14
Galbanum ...	5	0	Wax (bees)—		
Gamboge ...	31	3	Chilian ...	20	0
Honey—			East African ...	113	0
Buckwheat ...	26	26	East Indian ...	294	0
Californian ...	327	14	Egyptian ...	44	0
Chilian ...	108	108	Jamaica ...	47	0
Cuban ...	140	140	Morocco ...	47	0
Hayti ...	63	63	Mozambique ...	172	50
Jamaica ...	230	230	West Indian ...	50	2
St. Lucia ...	285	285	Zanzibar ...	50	0
San Domingo ...	159	159	Wax veg. (Jap.) ...	125	100
West Indian ...	69	69	Wine-lees ...	34	0

* Sold privately.

ALOES.—Cape was plentifully offered, and, although importers had reduced prices in one or two instances by 4s. per cwt., there were no buyers. Good firsts were obtainable

at 56s. per cwt., and other qualities in proportion. Of Curaçoa aloes 50 boxes offered, of which 16 sold at 75s. for fair capey, which was slightly under the limit. Good liver was held at 100s., and capey turning lively at 90s. per cwt. Of new crop Socotrine 15 kegs offered, and were retired at 120s. for good stiff lively in kegs. Slightly less would be accepted. A single keg of Mocha strainings sold on underwriters' account at 47s. 6d. per cwt.

BELLADONNA-ROOT.—A lot of 13 bags English, analysing 0.57 per cent. alkaloid, was limited at 5s. per lb.

BENZON.—No Sumatra offered. A lot of 22 cases Palembang thirds was limited at 6l. 10s. per cwt. Of Siam. 16 cases offered; for small almonds 26l. was wanted, 20l. for pea and bean size, and 14l. to 15l. for small grains, part slightly blocky.

BUCHU.—A single bale of slightly yellowish round leaf sold at 5s. 3d. per lb., and for good clean green 6s. 3d. was wanted.

CAMPHOR (REFINED).—Privately the market for refined remains firm, with a continued inquiry and scarcity of 4-oz. tablets, arrivals of which are shortly expected. In auction 20 cases (320 and 256 pieces to the lb.) were bought in at 4s. per lb.

CASCARILLA sold at very full prices considering the poor quality offered; 25 packages offered and 7 sold, including good fair leanish twiggy, mixed with silvery quill, at 120s.; leaner and more stringy and country-damaged at 92s. 6d. Siftings were retired at 80s.

CITRONELLA OIL.—A lot of five drums Ceylon in prize sold at 2s. 4½d. per lb.

COCA-LEAVES.—Six bags of ground Java sold at 5½d. per lb., subject to approval.

CUBES.—Fair stalky of sound quality was limited at 17l. to 18l., as to seller; 26 bags of second-class sea-damaged sold on account of the underwriters at from 15l. 15s. to 16l. 2s. 6d., but mostly at 15l. 10s., subject.

DRAGON'S-BLOOD.—Two cases of good fair slightly blocky Zanzibar drop sold at 11l. The best quality was held for 15l. per cwt.

EUCALYPTUS OIL.—A lot of 10 cases analysing 75-per-cent. eucalyptol sold at 2s. 9d. per lb., and for a further 20 cases analysing 66-per-cent. 2s. 8d. was wanted.

GAMBAGE was quiet, three cases selling, under Government restrictions, at from 35l. to 36l. for good Siam pipe, part blocky.

GUM ACACIA.—Six pockets of fair Kordofan sorts, sea-damaged and part blocky, sold without reserve for account of whom it may concern at from 95s. to 5l. 2s. 6d. per cwt.

HONEY again met with a keen demand, and prices showed an irregular advance of from 7s. 6d. to 20s. per cwt. on previous auction rates, the following prices being paid: *Jamaica*, palish brown set and setting in barrels, 139s. to 144s.; *banana set*, 144s. to 145s.; *very dark liquid*, 120s.; *Chilian*, fair set yellow in kegs, 134s. to 139s.; *Californian*, good brown setting, 140s.; 26 kegs *Buckwheat* honey sold at 90s. for black liquid; *St. Lucia*, fair to good amber liquid in cases, 130s. to 141s.; *dark to darkish liquid*, 125s. to 135s.; *West Indian*, brown and brownish setting in casks, 132s. to 135s.; *San Domingo*, smooth pale brown set in 5-cwt. casks, 136s. to 143s.; *dark to darkish brown set* and setting, 134s. to 141s.; *Hayti*, good liquid amber in casks, 134s. to 138s.; *pale hard set*, 138s. to 141s.; *fair to good amber set* and setting, 132s. to 141s.; *Cuban*, nice pale set in 5½-cwt. casks, 144s. to 146s.; *good brown set*, 135s. to 140s.; *brown set*, 131s. to 135s.; *common yellow set*, 131s. During the auction interval there has been a good demand, the sales including pale amber *Jamaica* at 132s., *pale Cuban* at 132s. 6d., and *ordinary* at 127s. 6d. *Californian* is firmly held at 140s.

IPCACUANHA.—The market demand was again filled by the sale of about 15 bales sea- and grease-damaged *Matto Grosso*, which realised from 7s. 8d. to 10s. 4d. per lb., according to damage. Sound was available at from 11s. 3d. to 11s. 6d., as to quality, and for fair *Cartagena* 11s. was wanted, there being ready buyers at 10s. 6d.

KOLA.—Values were slightly easier, and of a parcel of 135 bags *Jamaica* and *Java* the bulk sold, including good dry *Jamaica* halves and whole, at from 8½d. to 9d., and good bold dry *Java* 9d. per lb.

MACIE OIL.—Two cases of Dutch expressed in blocks were limited at 11s. per lb.

MINT OIL.—A lot of three cases *Kobayashi* sold without reserve at 3s. 3d. per lb. for ullaged. The spot private price for sound is from 3s. 7d. to 3s. 8d.

MYRRH again realised full prices, 16 bales of ordinary sorts of *Aden* character selling at 10l., and this figure was also paid for good fair, partly blocky sorts.

NUX VOMICA.—A lot of 473 bags *Calcutta* offered, of which 50 had been sold privately, and 42s. was wanted for the remainder, consisting of fair bright clean.

ORANGE-PEEL.—A lot of 20 "plasters" in prize sold at 5½d. per lb. for quarters.

ORRIS.—A lot of 29 bags *Mogador* sold at from 61s. to 74s. for fair.

SARSAPARILLA showed no change. Three bales of fair *Lima-Jamaica* sold at 3s. 3d., and for seven bales of genuine grey *Jamaica* a bid of 3s. 10d. is to be submitted, the limit being 4s. per lb. A single bale of sea-damaged sold at 3s. 5d., and for 28 bales of yellow and red native *Jamaica* mixed the buying-in price was 2s. 4d. For five bales of *Ilonduras* 3s. 6d. net and no allowances was wanted.

SENNA.—Quiet, with an easy undertone for *Tinnevely*; very fair stocks exist on the spot, and export licences are difficult to get. Ordinary small to medium yellowish sea-damaged sold at from 3½d. to 4d., and *podis* at from 3½d. for sea-damaged, and 3½d., subject, for sound.

STRAMONIUM.—A lot of 12 bales sold without reserve for account of whom it may concern at 6d. per lb. for oil-damaged.

VALERIAN.—In the drug-auction 15 bags of fair *Belgian* sold at 352s. 6d. per cwt., being dearer.

WAX, BEES'.—Extremely quiet, the only sale being 50 blocks of good fair *Mozambique* block at 9l. 15s. per cwt.; 122 packages of this character, consisting of roll, part small and drossy and re-melted block, were bought in at from 9l. 15s. to 10l. Business privately has been done at 9l. 15s. for block of this description. *Jamaica* was quite neglected, there being no orders, and 44 packages were bought in; business is possible at 11l. 15s. Two cases of *St. Lucia* sold at 9l. 10s.

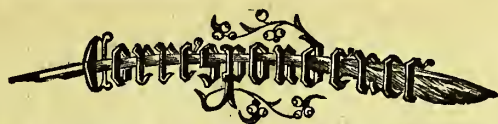
WAX, VEGETABLE.—A lot of 125 cases good *Japanese* squares offered in prize, and 100 sold at 92s. 6d. per cwt.

YOHIMBE-BARK.—A lot of 33 bags was bought in at 150s. per cwt. without discount or allowance. Privately a fair amount of interest is being shown in this *South American* bark, which was formerly sent to Germany.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool:

To London (November 24 to 30).		
Acetic acid, 112 brls.	dalwood, 6,250l.; synthetic, 6 cs.	Chemicals, unrated, 5 brls. 1 cs.
Antim. reg., 20 tons	Oils, fixed: cod, 500 cs. 432 cks. 438 brls.;	Dental goods, 670l.
Argol, 603 bgs.	cod grease, 50 brls.;	Drugs, unrated, 72 pkgs. 32 cs. 2 brls.
Arsenic, 170 cwt.	cod-liver, 420 brls.	Dyestuffs, unrated 35 brls. 7 cks. 3 cs. 1 kg.;
Arnica-flowers, 3 cs.	10 pkgs.; fish, 250 cs.	cutch, 1,000 cs. 4,800 pkgs.; dye ext., 60 cks.; fustic ext., 390 cks.; gambier, 1,244 bgs. 3,164 cs. indigo, 31 cts.; logwood ext., 462 cks.; myra- bolans, 31,255 bgs.;
Belladonna-leaves, 24 bls.	58 cks. palm, unref., 139 cks.; seal, 5 cks.;	quercitron ext., 50 cks. 100 brls.; tan- ning ext. 384 bgs. 1,865 cks.
Belladonna-root, 7 bgs.	wood, 1,425l.	Formaldehyde, 28 brls. 211 cks.
Bismuth concentrates, 400l.	Ointment, 280l.	Gum damar, 52 cs.
Bronze powder, 4 cs.	Opium, 110 cs.	Iodine, 265 kgs.
Bromides: ammon., 25 cs.; potash, 10 cs.	Orris, 180 bgs.	Kola, 25 bgs.
Camphor, 170 cs.	Oxalic acid, 20 cks.	Nuts and kernels (bgs.): arachis, 56,528 and 20 tons; copra, 1,280; palm-kernels, 84,158 12 cks. and 833 tons; shea, 250 bgs.
Carbon black, 600 cs.	Papain, 18 cs.	Oils, fixed: palm, 3,014 cks.; whale, 344 drms.
Casein, 4,183l.	Perfumery, unrated, 649l.; toilet-powder, 2,829l.	Phthalic acid, 10 drms.
Chalk, prepared, 938l.	Potash iodide, 10 cs.	Potash carb., 112 cs.
Chemical products, un- rated, 16 cs. 50 cks.	Pumice stone, 13 tons	Pyrogallic acid, 50 cks.
Cinchona, 1,597 bls.	Quinine, 265,200 oz.	Resin, 4,617 brls. 274 cks.
Colchicum-seed, 2 bgs	Quinine ethylcarb., 1 cs.	Saltpetre, 2,154 bgs.
Cream of tartar, 36 pkgs.	Resin, 300 brls.	Seeds: anise, 50 cs.;
Dagga, 21 bgs.	Salacetos, 40 kgs.	cotton, 2,585 bgs.;
Dental goods, 9l.	Salicylic acid, 29 brls.	dill, 1,104 bgs.; lin, 18,396 bgs.
Drugs: dried medicinal leaves, 153 pkgs.;	Saltpetre 3,759 cwt.	Soda acetate, 113 brls.
dried flies, 48 pkgs.;	Salol, 19 cs.	Soda benzoate, 2 kgs.;
dried roots, 135 pkgs.	Seeds (bags): annatto, 573; canary, 800;	Soda hyposulph., 28 brls.
Dyestuffs, etc.: indigo, 10 cs. 8 cts.;	dil, 40 pkgs.; lin, 4,633; rape, 1,777;	Soda salicylate, 6 kgs. 2 cs.
myra- bolans, 25,974 pockets	sunflower, 50	Tartaric acid, 10 brls. 50 kgs.
936 bgs.; myrabolan ext., 800 bgs.;	Soap stock, 35l.	Thorium and cerium nit., 20 cs.
tanners' bark, 475 tons	Soda salicylate, 21 cwt.	Tuba-roots, 60 brls.
Emulsion, 9,090 bxs.	Sponge, 35 bls.	Turpentine, 1,900 brls.
Gelatin, 1,930l.	Starches (cwt.): 200;	Wax, bees', 1,333 pkgs. 2 brls.
Gentian, 52 bls.	farina, 2,900; potato flour, 4,916	Wax, carnauba, 117 sls.
Gums (cwt.): acacia, 200; damar, 240;	Talc, 730l.	
olibanum, 120	Tallow, 7,492 cwt.	
Juniper-berr., 169 bgs.	Tartaric acid, 76 cks.	
Lemon-peel, 4 bgs.	Thorium nitrate, 2,629l.;	
Lycopodium, 60 bgs.	cerium nit., 6l.	
Milk-sugar, 56 brls.	Turpentine, 700 brls.	
Mineral white, 390l.	Valerian-root, 160 bgs.	
Musk, 192l.	Wax not described, 342 pkgs. 110 bgs. 58 cs.	
Nuts and kernels (cwt.): arachis, 70,211;	Wax, paraffin, 265 cwt.	
copra, 1,960	To Liverpool (Nov. 26 to Dec. 1).	
Oils, essential, 224 cs.	Acetate of lime, 2,476 bgs.	
143 drms. 15 cks. 2 jars, 10 crts.;	Arsenic, 120 tons	
anise star, 200 cs.;	Bronze powder, 22 cs.	
euca- lyptus 80 cs.;	Calabar beans, 4 pkgs.	
san-	Castorium, 120l.	
	Celluloid, 523l.	



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Price-list Prohibition.

SIR,—We have read with interest your article on this subject (*C. & D.*, December 8, p. 42), and as we have been occupied with this matter ourselves we should like to suggest a fact, which we have already done to the Paper Commission, and which we think should appeal to them in a practical way. That is, that if price-lists are prohibited, the actual weight of paper used in correspondence and in answering inquiries will probably be many times more than the amount of paper saved by the withdrawal of the lists, and this, of course, altogether apart from the enormous amount of labour involved. We cannot think that in any case the proposal to do away with such lists as those of the wholesale druggists (which are only issued monthly or bi-monthly, and then only to a limited extent) will be proceeded with. We think an effort should be made by the whole trade to put their case strongly before the Royal Commission on Paper.

Yours faithfully,

RAIMES & Co.

Italian Cream of Tartar.

SIR,—In the Trade Report of the *C. & D.*, November 10 (p. 48), under cream of tartar, you state that the scarcity on the London market has become acute through contracts having been defaulted by one of the large Italian makers, this evidently referring to us. We would therefore like to point out to the trade that our works, after successfully contending with the increasing difficulties which have beset manufacturers for many months past, were at last obliged to stop making cream of tartar, because all the contracts concluded by us with English makers of carbonate of soda or soda ash, an indispensable auxiliary material in the manufacture of cream of tartar, could not be carried out on account of the refusal of the British authorities to grant export licences. Taking to heart the situation thus created, and disregarding any pecuniary sacrifice on our part, we at once proposed to our customers to replace the soda ash required by purchasing supplies in the United States or wherever it could be had promptly without regard to price, provided they would agree to our proposal; and we are glad to say that, with one exception only, our friends have responded generously to our appeal, rendering it possible for us to give them due satisfaction. We shall feel obliged to you for giving this fact publicity as an expression of gratitude to our customers as well as in justice to ourselves.

Yours faithfully,

FABBRICA CHIMICA ARENELLA, SOC. AN.

Palermo, November 30.

Glycerin and Sugar Substitutes.

SIR,—By instructions of the directors of the Chemists' Defence Association, Ltd., I have been in communication with the Local Government Board on the subject of glycerin and sugar in B.P. preparations. The C.D.A. directors requested the Board to communicate with local authorities entrusted with the administration of the Sale of Food and Drugs Acts, asking these bodies to take note of the fact that the General Medical Council had removed certain preparations containing glycerin and sugar from the British Pharmacopoeia with a view of diminishing the consumption of these two substances. The Board were asked to instruct these local bodies to refrain from taking action in cases where pharmacists sold or dispensed the deleted preparations not made according to the old B.P. formulæ, but according to the new formulæ published in the "War Emergency Formulary" compiled by the British Pharmaceutical Codex Committee in conjunction with a Committee of the British Medical Association. By way of reply, I have been courteously referred to the questions asked in the House of Commons on December 4 by Mr. Anderson, and answered on behalf of the Local Government Board, etc., by Mr. Pratt, Sir E. Cornwall, and Mr. Clynes. These were fully quoted in *THE CHEMIST AND DRUGGIST* on December 8 (p. 36). It will be remembered that the House was informed that public analysts had been suitably communicated with by the Local Government Board, and that the omission of glycerin and sugar would not materially lessen the value of the preparations as medicines. I have had an interview with the Chief Inspector of Foods at the

Local Government Board, and he informed me that, in his opinion, it was unlikely, in the circumstances, that proceedings would be taken against pharmacists making up medicines in accordance with the "War Emergency Formulary." I have been instructed by the directors to call attention to this Formulary, which has now been published, and to strongly recommend members of the Association to adopt the recipes therein contained, being substitutes for the deleted formulæ above mentioned. The directors recognise that some members who have stocks of glycerin and sugar may prefer to compound private prescriptions according to the deleted B.P. formulæ as long as these stocks last; but at all events the directors suggest that the W.E.F. recipes should be adopted, in order to insure uniformity and the absence of confusion, at the earliest possible moment. It should be remembered that the Ministry of Munitions have stated that pharmaceutical glycerin will become more and more difficult to obtain until the war is over. It may be found desirable to add to labels the words, "War Emergency Formulary—not British Pharmacopoeia," and in all cases of doubt that plan should be adopted. It is clear that something of the sort will be necessary when the new formula for compound-liquorice powder is used. Panel chemists should make themselves familiar with the details on the subject of Insurance dispensing published in *THE CHEMIST AND DRUGGIST*.—Yours faithfully,

W. JOHNSTON,

Secretary, Chemists' Defence Association.

113 Temple Chambers, London, E.C. 4.

Profits on Proprietaries.

SIR,—Firms of good repute who allow liberal discounts say it is unfair to class them with others who do not. While I admit with regret that it is unfortunate to be found in bad company when the average census is taken, there is now a fine opportunity for those who are generous to show up in their true colours. It is right that the sheep should be separated from the goats, so I have devised a means whereby they can be easily sorted by putting a mark on the forehead. The idea can be easily worked, and will prove a paying proposition to those who use it. Once adopted it will sharpen the wits of the chemist and his assistant, indicating at a glance how much profit is being made or time lost on each transaction. First decide what the working expenses are to be. I suggest 12½ per cent., because the grocer cannot work for less, and it will cover foods. Get the lowest net cost price of each article. Discard any such considerations as bonus schemes or allowances for window-space. Pay and be paid in cash; "no truck." Then take your wholesale list, and, instead of putting a tick (✓) for recognition, place against the line in figures the actual net cash profit, after deducting working expenses. No need to select more than 100 of the best-selling patents. "Every picture tells its story," and every time you are obliged to go to the price-list because goods are not sold at face-value you will know what pays and what does not, and decide whether it is not easier in some cases to do nothing rather than work for nothing.

Yours faithfully,

J. J. JACKSON

(Chave & Jackson, Ltd.).

Hereford.

SIR,—Mr. Jackson's question was, "What does it profit a man who sells 1,000l. worth of patents at P.A.T.A. prices?—because the net profit does not pay the wages of a typist or a junior assistant." Well, the average net profit on a turnover of 1,000l. is 200l. The establishment-charge is, in my own case, 5 per cent on turnover, which leaves a net profit of 150l.—in my opinion, ample to pay the wages of a typist or a junior assistant. An establishment-charge of 5 per cent. may appear very small to some of your readers, but if they will calculate the short space of time it takes to hand out a patent medicine, it will be easy to see that 100l. worth can be handed out quite easily at a cost of 5l. In case anyone should ask about the interest on capital invested, I should like to point out that 90 per cent. of the P.A.T.A. lines are purchased month by month from my wholesalers and are sold before the bills have to be met. The interest on the capital required for the remaining 10 per cent. is more than made up by the extra business which I get by cheerfully and willingly handing out quick-selling and nationally advertised proprietary articles. I hope at an early date to be able to visit Hereford and to discuss thoroughly this problem with Mr. Jackson.

Yours faithfully,

HUGO WOLFF.

Tottenham, N.

SIR,—The letters on this subject, written by successful men representative of all classes—manufacturers, wholesalers, and retailers—have been most interesting. As there are two points on which all your correspondents are agreed, surely something can be done towards getting them

put into practice. These points are (1) that protection at face-value would be a boon; (2) that 20 per cent. is the absolute minimum working profit. With regard to the first, at our last Association meeting protection at face-value was discussed, and much approved. It was decided to write to the other Associations of pharmacy, the Proprietary Articles Trade Association, and certain manufacturers on the point. I would suggest that a special section of the P.A.T.A. list should be opened, this section to be for articles retailed at face-value only. They might all carry a uniform profit to retailer (and wholesaler), and it would be up to us, as retailers, to give preferential treatment to them in the hope of increasing their number. The success of Mr. Harrison, and of A. & F. Pears with their Golden Series, should be sufficient evidence that there is money as well as equity in fair treatment. As to the second point, although 20 per cent. is accepted as a minimum, it is by no means agreed that it is a sufficient working profit. The fact that it was put down as the P.A.T.A. ideal in pre-war times would appear to warrant some increase now. Why not a uniform discount of 25 per cent. on the articles in the F.V. Section P.A.T.A.? Foods should be standardised in prices—1s., 2s., etc.—and a profit of 20 per cent. on them would satisfy most of us. When things go up a reduction in size causes very much less friction than an increase in price, and, wherever possible to the manufacturer, is preferred by the retailer.—Yours truly,

EDGAR JONES,

Hon. Sec. Brighton and Hove Association of Pharmacy.

SIR,—I was surprised that in the *C. & D.* of December 1 there was no reference to the admirable letter of Mr. W. H. Saunders which appeared in the previous issue. I think retailers should congratulate themselves that a member of a leading wholesale house should interest himself in the question of retailers' profits on proprietaries. It is just two years since Mr. Saunders raised the question of "face-value" for proprietaries, but through lack of uniform aim we do not seem to be much nearer the desired goal. It is useless for individuals to argue the respective merits of a 15-per-cent., 20-per-cent., 25-per-cent., and 33½-per-cent. profit at the present stage. We must come down to realities, and take a lesson from trade unionism. Where would railway men be now if they worked on similar lines to pharmacists' present methods? The railway companies would be able to snap their fingers at them. . . . Regarding non-protected proprietaries at the present, as individuals, many of us can set an example by giving up stocking those which do not yield what we consider a fair profit at face-value. The time lost in handling them can be usefully occupied in improving our general methods. We are excellent grumblers. Let those who have any grit cease mutual bickerings and act.—Yours faithfully,

J. B. SHATTOCK.

Lancaster, December 4.

SIR,—The correspondence in the *C. & D.* anent profits on proprietary medicines is most interesting and entirely practical. I hope one outcome of the discussion will be that—say, from the New Year—all patents and proprietary articles will be sold at face-value. With an 80-per-cent. increase in the cost of living it is absurd to be selling articles marked 1s. 1½d. for 1s. and articles marked 2s. 9d. for 2s. 6d. The Proprietary Articles Trade Association's standard of profit of 25 per cent. is not enough, as the turnover in most patents is comparatively small. Now is the psychological moment to revert to face-value, and I hope the P.A.T.A. will settle this question at once. I appeal to the Retail Section of the P.A.T.A. in the matter.

Belfast.

SAMUEL HOGG, Ph.C.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

R. H. B. (193/3).—BOOKS ON EXPLOSIVES.—Marshall's "Explosives," published by J. & A. Churchill, two volumes, 3l. 3s. net; Marshall's "A Short Account of Explosives (Churchill), 5s. net; Ramsey and Weston's "Manual of Explosives," 1s. (Paul, Trench, Trubner & Co.).

W. R. W. (176/31).—(1) PRINTER'S INK is diluted with a kind of varnish made by heating together evaporated linseed oil 3 gals., rosin 12 lb., and brown soap 3½ lb. The linseed oil is prepared by heating linseed oil until it smokes, firing the vapour, and allowing the oil to burn until on testing occasionally it can be drawn into threads between the finger and thumb. The firing-pot is so arranged with

a lid that the flame can be extinguished at will. (2) PRINTERS' LYE, used for cleaning type, is made either with pearl-ash (1 lb.), potash (¾ lb.), or soda-ash (1 lb.), to a gal. of water. Another variety contains caustic soda ½ lb., and soft soap 2 oz., to a gal. of water.

D. S. B. (200/5).—The formula for mist. tragac. chlorof. was given in the *C. & D.*, August 25, p. 43. It is too soon to repeat the information, but you could obtain the back number from the Publisher.

T. S. S. (200/29).—BAKING-POWDER.—There are several substitutes for cream of tartar on the market which have for their basis acid phosphate of calcium. These are now chiefly employed with sodium bicarbonate and diluted with starch in baking-powders. Four formulæ were given in the *C. & D.*, February 17, p. 52.

H. C. (205/3).—A formula for a skin-cream of the stearin type was last given in the *C. & D.*, February 10, p. 52.

S. D. C. (200/48).—CONCENTRATED INFUSIONS.—The processes for making these are given in "Pharmaceutical Formulas," and vary somewhat according to the ingredients. On that account you should refer to that work for particulars.

R. W. (201/49).—The books you mention are of no particular value.

A. J. B. (204/37).—There is, not so far as we are aware, any book devoted to the drying of vegetable products such as soup-powders. The drying-closets employed in manufacturing pharmacy are suitable for the purpose, but the engineer would require to work out the plans for the installation so as to meet the particular requirements of your business.

R. M. C. (197/51).—TREATMENT OF SHINGLES.—The vesicles should either be painted with collodion (with 1 per cent. of cocaine) or dusted with equal parts of starch and boric acid. If the vesicles have burst, the application may be made of equal parts of zinc ointment and lime liniment. For the neuralgic pains that often follow an attack the following mixture is useful:

Sodii salicyl.	...	...	...	gr. x.
Phenazon.	...	...	...	gr. x.
Syr. aurant. flor.	...	...	...	℥xxx.
Aq. ad	...	...	...	3j.

Ter in die.

Quinine and arsenic may also be tried.

R. & Co. (210/16).—CHERTIER'S COPPER is a compound employed in the manufacture of fireworks. It is made as follows:

Copper sulphate	...	...	...	7 lb.
Potassium chlorate	...	...	...	7 lb.
Solution of ammonia (0.880)	...	...	...	2 lb.

Mix the powdered ingredients and add the ammonia to form a pasty mass, then dry at a gentle heat (not exceeding 120° F.).

There is also a method of making it by allowing the reaction to take place in solution, but the above process avoids the evaporation which is then required.

C. A. H. (207/48).—STRAINING JELLIES.—On a large scale this is managed by means of filter-presses, which contain a number of squares of filtering-material through which the liquid is forced. You may find a difficulty in purchasing filter-presses at the present time.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Dec 14, 1867.

Faraday as Chemical Assistant.

When the writer obtained his appointment at the Royal Institution, in 1820, Sir Humphry Davy was Honorary Professor, and Mr. Brande Acting Professor of Chemistry. Mr. Faraday was the Chemical Assistant; while the writer, then a lad of fourteen, rejoiced in the title of Laboratory Assistant. Faraday occupied rooms on the second floor at the Institution, and dined daily at one o'clock at an eating-house in Marlborough Street. When not engaged in assisting Professor Brande at the lecture table, or in preparing illustrations for coming lectures, he generally found ample occupation in making various chemicals not easily procured, and the contents of the lines of bottles on the shelves of the laboratory testified to his skill and industry. The few hours of leisure that he enjoyed were devoted to original research.

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Is situated in the immediate vicinity of one of the largest Meat Works in America, thus ensuring an abundant supply of fresh raw material at all times.

Armour Laboratory products are the result of the most recent scientific effort as applied to the preparation of animal substances.

In specifying Armour animal substances and preparations the Pharmacist is sure of the highest standard of excellence that scientific research can offer, and he thus safeguards the physician, the patient, and his own reputation.

PEPSIN.

SOLUBLE.—Granular, Scale, or Powdered.

INSOLUBLE.— Powdered. For Dry Forms.

Glycerole Pepsin.

10 per cent. Solution of Armour's 3,000 Test Pepsin.

Lactated Pepsin.

"A Perfect Combination of the Digestive Ferments."

Glycerine Extract of Red Bone-Marrow.

Pancreatin U.S.P.

Haemoglobin.

Lecithin.

Isolated from fresh brain substance.

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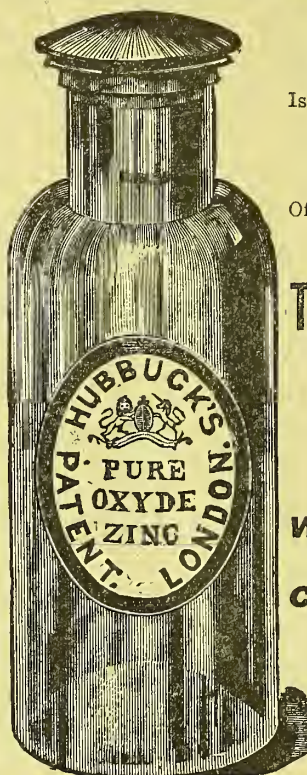
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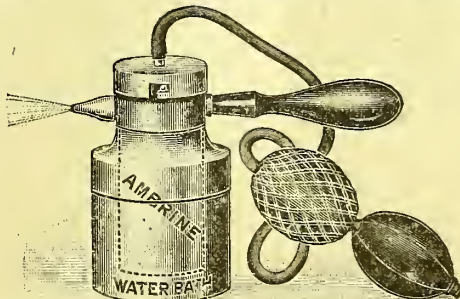
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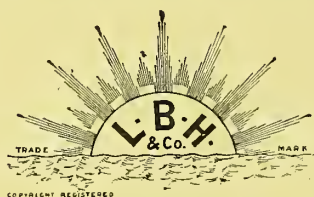
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Pulv. Ipecac. Comp. P.B., 1 lb. @ 10/3 lb.
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Quinine Hydrobromas, B.P., 25 oz. @ 4/4 oz.; 10 oz. @ 4/6 oz.
Quinine Hydrochlor., B.P., 25 oz. @ 4/3 oz.; 10 oz. @ 4/4 oz.
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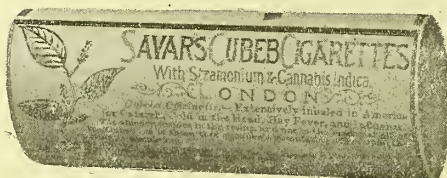
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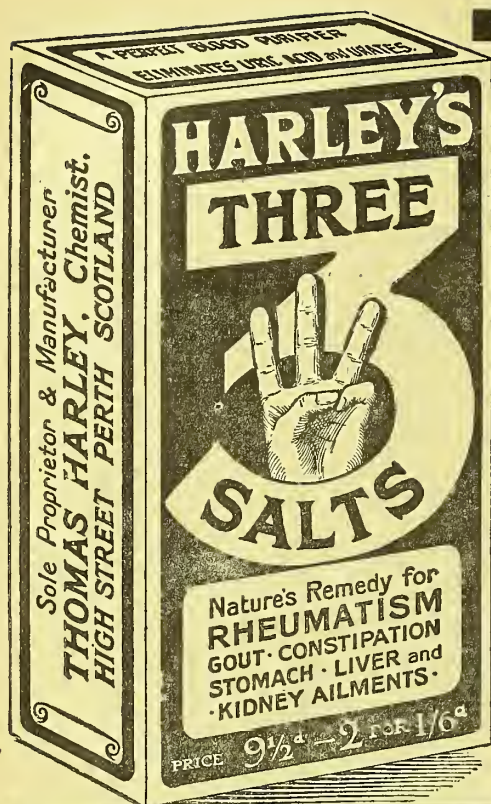
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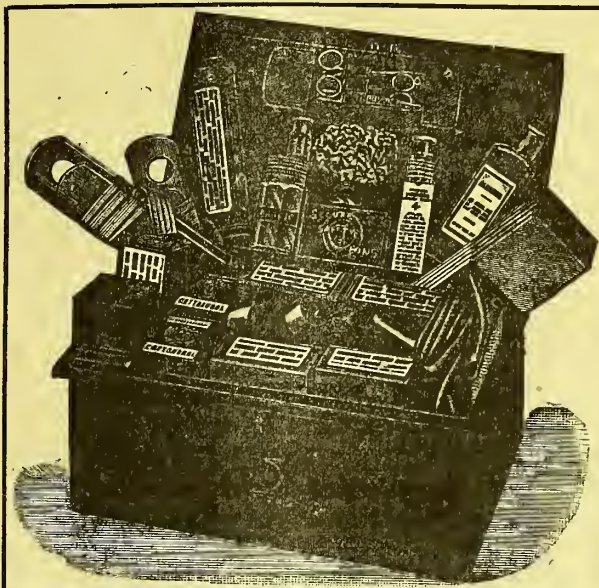
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Heavy weight	each	3 2	3 5	3 8	3 11	4 3	4 10	5 2	5 9
Light " " " " " "	"	3 1	3 4	3 7	3 10	4 1	4 8	4 11	5 6
Covers, scarlet or grey plush	"	0 11	1 0	1 1	1 2	1 4	1 6	1 8	1 10

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8×12	5/-	7/6
8×14	5/5	8/4
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10×14	6/5	9/8
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12×16	7/4	11/8

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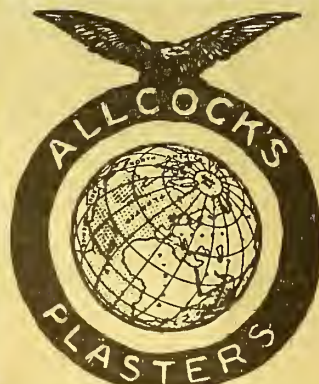
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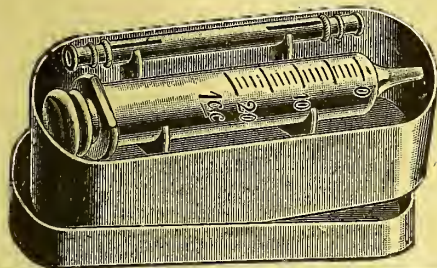
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TO CHEMISTS AND OPTICIANS.

Y. W. & A. GREENWOOD are instructed by Messrs. Pollard & Co., Blackburn, the Trustee to Sell by Auction, on MONDAY and TUESDAY, DECEMBER 17 and 18, at 1.30 p.m., the whole of the Chemicals, Drugs, and miscellaneous Stock of an old-established Druggist's Shop, with Avery's Platform Scale, two pair Dispensing Scales, Brass Shop Scales, Fancy Show Bottles, etc., Ophthalmometer, Eye-testing Case complete, Gold-filled Eye-glass Frames, large stock of Eye-glass Fittings, Diagrams, about 2,000 various Eye-glass Lens, and other goods.

Sale of Chemical stock, Monday 17th, at 1.30; Optical goods and plant, Tuesday 18th, at 1.30 and following days till stock is cleared.

Auctioneers' Office, 1 King Street, Bacup. On view morning of sale

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every
10 words or less beyond, prepaid.

CARLISLE.—For Sale as a going concern, in consequence of the death of the owner, Chemist and Sight-testing Optician's Business, along with the premises on which the same are carried on, comprising Shop, Dispensing and Sight-testing rooms, and dwelling-house attached; the business was established in the year 1846, and for the last 35 years has been successfully carried on by the late owner; a large portion of the purchase money of the premises will be allowed to remain on mortgage at 5%. Further particulars on application to J. S. Jackson, Solicitor, Carlisle.

COUNTRY Town, near Birmingham.—For immediate disposal through death, Family Retail Business, established 50 years; sale at valuation; no goodwill; rent £40; returns £1,500. Remington & Massey, Chartered Accountants, 46 Cherry Street, Birmingham.

LONDON, W.—For immediate disposal, under urgent circumstances, old-established Dispensing Family Retail Business; average net profit £650; splendid position; plenty of scope; low rent; valuable lease. For quick sale will accept £100 and valuation; applicants with £900 will find this a most desirable investment. Address "Urgent" (221/7), Office of this Paper.

PHARMACIST offers good-class Dispensing, Family, and Light Retail Business for Sale as a going concern, owing to failing health; good residential neighbourhood in outskirts of large town, North of England; profitable turnover approximately of £1,000; established 1900; no Insurance; Manager with view to succession entertained; own premises, well fitted and fully stocked; valuation about £600; property £1,250 or at rental; only genuine replies entertained, and references required. Apply 220/25, Office of this Paper.

SOUTH WALES.—Important market town Carmarthen, on account of serious health breakdown.—For disposal, very old-established well-known Chemist's Business, at present carried on for past 22 years by Mr. A. Arthur; fine corner premises, double-fronted, handsome fixtures and well stocked. Further particulars, apply 6 Nott Square, Carmarthen.

SOUTHAMPTON.—Good-class Dispensing, Prescribing, and Retail Business; returns £1,600; gross profits £700; books open for inspection, and any particulars obtainable; shop well fitted and stocked; occupation on completion of purchase; rent £70 per annum. Apply 213/5, Office of this Paper.

FOR Immediate Disposal.—First-class Pharmacy, North London; excellent possibilities for increased business; modern fittings; well stocked; splendid central position; low price for quick sale. Apply 222/5, Office of this Paper.

FOR Sale, as a going concern, well-established Chemist's Business in Blackpool; present takings average about £1,000 per annum. Apply John Potter, Incorporated Accountant, 34 Birley Street, Blackpool, or Parkin S. Booth, Accountant to the Association of Manufacturing Chemists, 35/37 Exchange Chambers, 2 Bixteth Street, Liverpool, or 32 Kimberley House, Holborn Viaduct, London, E.C.

HIGH-CLASS Dispensing Business for Sale in residential neighbourhood near London (South); main thoroughfare; returns average £2,000; books kept and balance sheet audited; plenty of scope for extension; every investigation given; price £1,000. Apply "Regret" (201/1), Office of this Paper.

RARE OPPORTUNITY (Death vacancy), near Liverpool.—Very old-established Light Retail and Prescribing; turnover £1,100; exceptionally profitable; price £100 goodwill and valuation of stock and fixtures, or first offer of £750. Apply Kennedy, 2 Park Road, Liverpool.

RE WM. LYLE & CO., MANUFACTURING CHEMISTS, BERWICK-ON-TWEED.—For sale, as a current going concern, the Stock-in-Trade amounting, as per inventory, to £341 18s. 11d., together with the goodwill of the Lyle Ointment and other proprietary articles. The business is for sale consequent on the death of Mr. Wm. Lyle. Apply to Mr. A. L. Miller, Auctioneer, Berwick-on-Tweed.

AGENCIES.

EGYPT.—French Representative established in Egypt since 1910, having wide experience and a first-class connection among Chemists and Druggists, is prepared to represent English Manufacturing Chemists and Druggists and makers of Pharmaceutical and Toilet Specialities; high-class references to English and French Houses for which agencies in force. Reply to P.O. Box 1505, Cairo, Egypt.

REQUIRED by old-established Wholesale business in Ireland, selling Agency or concession to push sales of suitable lines to trade only; staff of expert travellers calling on every Chemist and Druggist in every town and village in Ireland; present Agencies cut down on account war conditions. Write Manager, 185 Great Brunswick Street, Dublin.

TO LET.

CENTRALLY situated Premises to Let near High Holborn; suitable for Light business, store-rooms, or offices; the services of a qualified Chemist may be arranged if desired. Lyndwood & Co., Export Chemists, 71 High Holborn, London, W.C. 1.

SHOP to be Let; double-fronted; splendidly situated in shopping centre of main road, and fitted as a Chemist's; occupied by Chemist for nearly 50 years; good business just closed owing to illness; fixtures at valuation; rent £50 per annum, tenant paying rates and taxes. Apply Harry Hooper & Co., Surveyors and Valuers, Estate Offices, Millwall, 14.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

RETAIL.

BIRMINGHAM.—Unqualified Assistant wanted; ineligible for military duty; well up in Dispensing, smart and courteous at Counter, good address; suitable lady Assistant entertained. Apply, with full particulars, General Manager, Hedges (Chemists), Ltd., Dale End, Birmingham.

BRISTOL.—Qualified Manager (over military age or ineligible for Army) for branch business in middle-class district; capable Assistant employed; brisk Counter trade; Dispensing; satisfactory references required. State salary and full particulars of experience to Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

BRISTOL.—Competent Assistant (over military age or ineligible for Army) for Dispensing and Retail Counter at branch; hours 8.30 to 8, Wednesdays to 1, Saturdays to 9, no Sunday duty; outdoors. Quote references and state salary required to Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

CAMBRIDGE.—Assistant; outdoors; unqualified; lady or gentleman; Light Retail and Dispensing; half-day a week, no Sunday duty; one senior and four apprentices kept. State salary to Flanders, Chemist, Mill Road, Cambridge.

CAMBRIDGE.—Lady Assistant required shortly; Minor qualification; hours 9 to 7.30, Wednesdays 1, light duty alternate Sundays; comfortable berth; outdoors. State age and particulars of previous experience, G. Peck & Son, Pharmaceutical Chemists, Cambridge.

EASTBOURNE.—Wanted (at once), lady or gentleman Junior Assistant (outdoors) for high-class Dispensing business. State salary with usual particulars, enclosing carte, to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

LIVERPOOL.—Lady Assistant for Dispensing department; reliable Dispenser. State age, height, qualification (if any), and salary required, G. H. Cole, The Pharmacy, Blundell-sands.

LIVERPOOL.—Junior Assistant in brisk city Business; 3 kept; must be ineligible or discharged; state age, height, salary (outdoors), and references (photo if convenient), John Bain, 4 Quadrant, Lime Street, Liverpool.

LONDON.—Reliable and energetic Assistant, capable of being left in charge, for small old-established Light Retail business; reasonable hours and no Sunday duty. Please apply with usual particulars, and stating salary required, to 221/21, Office of this Paper.

LONDON, S.W.—Outdoors Assistant; lady or gentleman; experienced in Counter and Dispensing; no N.H.I.; duties light. Salary and full particulars to "Alpha" (221/39), Office of this Paper.

LONDON, S.W.—Assistant for Dispensing in good-class Pharmacy. Full particulars, Topholme & Son, Earl's Court.

LONDON, W.—Lady Dispenser; quick and accurate, with some high-class Retail experience preferred; no Panel work; salary £2 10s. weekly; send details of experience and recent references. Also gentlemanly Assistant; two or three evenings weekly and on Saturdays from 3 p.m.; remuneration, 1s. 3d. per hour. "Brightside" (220/34), Office of this Paper.

MANCHESTER DISTRICT.—Elderly, qualified Chemist required; comfortable permanency. State age, salary required, references, and when at liberty, 210/22, Office of this Paper.

NORTH STAFFS.—Unqualified Assistant, male or female, capable and energetic, for Light Retail and Dispensing; easy hours; working-class district. State age, experience, and when disengaged, Griffiths, Kidsgrove, Staffs.

SOUTH OF ENGLAND; Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH WALES.—Unqualified Assistant (ineligible) wanted immediately; active. Apply J. T. Davies (Chemists), Ltd., 8 Temple Street, Swansea.

YORKSHIRE (West Riding).—Good opening for smart, energetic, unqualified Assistant; must be a first-class Counter-man and Dispenser; permanent and progressive post. "W. R." (219/400), Office of this Paper.

ASSISTANT wanted, with good general knowledge; accurate Dispenser; outdoors; half-day Wednesdays. Apply Lloyd, 125 St. John's Hill, Clapham Junction, S.W.

BY January 1st, lady or gentleman Assistant (ineligible) for Dispensing and Retail; lady must have some knowledge of Counter. Apply, with fullest particulars, and state salary (outdoors), to Pelham Young, Pharmacist, Hounslow, W. Telephone, 153 Hounslow.

DISPENSARY Porter.—Strong lad wanted; age 14 to 15; references required; hours 8 to 5. Apply to the Dispenser, St. George's Hospital, S.W. 1.

DISPENSER; 4-5 evenings per week; lady or gentleman; Hall certificate; good opportunity for students to earn means; mostly N.H.I. work; in a first-class Dispensing shop in S.E. Apply 218/36, Office of this Paper.

DISPENSER (man ineligible for military service, or woman), with Pharmaceutical qualifications, required during war-time at the Manor (County of London) War Hospital, Epsom; £3 3s. a week, no emoluments. Apply in writing, with particulars of qualifications and references, to Officer Commanding at Hospital.

J. WEARING, Pharmacist, Woking, has a vacancy for a Second Assistant; lady or gentleman entertained; light duties; outdoors; comfortable berth; give usual particulars.

JUNIOR Assistant wanted for good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace (opposite West Kensington Station), W. 14.

LADY Assistant (Dispensing department) immediately; hours 9 to 7, Thursdays 1, Saturday 8.30. State age, height, experience, qualification, and salary required (photo if possible), G. T. W. Newsholme, Ltd., 27 High Street, Sheffield.

LADY Dispenser required; outdoors. Please state salary required and experience, Foster, 14 Forest Hill Road, S.E. 22.

LOCUM, reliable, smart good Counter-man, for fortnight from January 31 next. Address 218/22, Office of this Paper.

MANAGER, qualified, to commence duties 17th inst. (near City), for brisk Store business; no Sunday duty; easy berth; salary £3 10s. to commence. Apply "X." (221/12), Office of this Paper.

MESSRS. ALLEN & LLOYD, 21 Station Road, Aldershot, require (at once), for their Fleet Branch, capable lady Assistant for Dispensing and Counter work; good-class trade. Apply, with full particulars and salary required, to above address.

QUALIFIED lady Assistant required in first-class West End Dispensing business as Second Dispenser and to make preparations; shop experience essential. Apply by letter, giving full particulars and stating salary (outdoors) required, to 222/14, Office of this Paper.

QUALIFIED Branch Manager wanted, with good experience of management and knowledge of Photography; must be ineligible for military service; references must bear the strictest investigation; good salary and commission to good man. Apply 222/2, Office of this Paper.

SMART Counterman wanted (unqualified), with knowledge of Photography and Dispensing; must be ineligible for military service; good references essential. Please apply, with usual particulars and salary required, to 222/200, Office of this Paper.

THE Gloucestershire Royal Infirmary and Eye Institution.—For the duration of the war, fully-qualified Dispenser (male); non-resident. Applications, stating age, qualifications, experience, and salary required, together with testimonials, to be forwarded to the Secretary, Royal Infirmary, Gloucester.

THOMPSON & CAPPEL, LTD., Chemists, 51 Piccadilly, Manchester, require an unqualified Assistant for high-class business. Send usual particulars of age, experience, wage, etc., also enclose photograph.

UNQUALIFIED lady Assistant, or man ineligible for the Army, in good-class Retail business in the centre of a populous town in the Midlands; applicants should give particulars of experience, stating age and salary required in first letter. Apply 219/10, Office of this Paper.

UNQUALIFIED, ineligible, for Light Retail and Photographic trade. Apply, stating full particulars, to "Nottinghamshire" (222/7), Office of this Paper.

WANTED, Dispenser, lady or gentleman; if the latter, one ineligible for military service; outdoors. Apply, stating full particulars as to age, qualification, or salary required, references to Goodman, Chemist, Banbury.

WANTED, Managing Assistant; qualified; Optics and Photography essential; good man could acquire interest in the business. Particulars to "Specs" (213/3), Office of this Paper.

WANTED, qualified Manager for Branch in good-class neighbourhood; Manchester district; ineligible; good house accommodation if required; state particulars, age, salary, etc. Also competent, unqualified Assistant. Apply 209/17, Office of this Paper.

WANTED, an experienced Assistant Dispenser (lady), at the end of January, at a Voluntary Hospital in Manchester; Minor qualifications, with board and residence. Address, stating salary required, age, and full particulars, with copies of not more than three testimonials, to 209/56, Office of this Paper.

WANTED after Christmas, a lady or junior Assistant; ineligible; outdoors. State fullest particulars, with photo if possible (others kept). Apply Oliver, Chemist, Maidstone.

WANTED, good experienced Assistant; lady or gentleman. Also elderly; qualified; hours 9 to 8. Apply 221/11, Office of this Paper.

WANTED, a competent qualified Assistant; over military age; outdoors. Apply, stating age, experience, and salary required, to L. Cameron, Pharmaceutical Chemist, Scaford, Sussex.

WHOLESALE.

LONDON Wholesale House requires Assistants for "Wet" and "Dry" Counters; also Laboratory Assistants; good wages to men with reasonable experience. Apply by letter, stating age, exemption, previous engagements, and wages required, to "Galenicals" (210/19), Office of this Paper.

CAPABLE man, experienced in the manufacture of all kinds of Surgical Plasters, India Rubber, and Lead Base. Apply 200/14, Office of this Paper.

COUNTER HAND in London Wholesale Drug house, for Light C Drugs and Wets; good working conditions, and every encouragement to willing man. Reply in confidence, with full particulars as to salary, military category, etc., to 209/260, Office of this Paper.

DRUGGISTS' SUNDRIES DEPARTMENT.—Wanted by a provincial house, an experienced man to accumulate orders in the department for despatch; no packing; state age, experience, and wages required; must be ineligible. Apply 210/39, Office of this Paper.

EXPERIENCED man wanted for Packing and Despatching heavy and fine Chemicals; used to keeping Stocks preferred, but not essential; ineligible for military duties; Eastern district of London; good wages and permanency. Apply 144/62, Office of this Paper.

EXPORT Wholesale Druggists, London, require a Junior Clerk with experience in Bond and Dispatch work, for the Warehouse Dispatch Department. Apply by letter, stating age, previous experience, and salary required, to "Export" (210/190), Office of this Paper.

EXPERIENCED Tablet Maker required; capable of taking full charge; Also Pill Maker, with experience of private recipes; good wages and permanent employment for reliable men. Send particulars of experience, and state remuneration expected, to 221/36, Office of this Paper.

JUNIOR lady Clerk to assist in Cost department. State experience and salary required. Harker, Staggs & Morgan, Emmott Street, Mile End, E.

PHARMACEUTICAL Chemist, with experience of the manufacture of Tinctures and Compounding required in the Laboratory of a firm of Essence Distillers. Apply, stating age, experience, etc., to "Essence" (210/46), Office of this Paper.

PILL Maker. Ayerton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

PROFITABLE side-line for Travellers already calling on Chemists. Write at once to "D. T. L.," c/o Streets, 50 Cornhill, E.C. 3.

R. SUMNER & CO., LTD., Wholesale Druggists, Liverpool, require a Senior Clerk, who has had good experience in a Drug House; one conversant with cost prices and able to check extensions, and capable of supervising the technical work of the office; applicants must be ineligible or over military age, and should fully state with what firms they have obtained their experience and what salary they desire.

REPRESENTATIVE wanted for Midland counties (ineligible); salary and commission. Also Representative for North-Eastern counties; character must bear thorough investigation. Apply by letter, giving full particulars, H. J. Lee & Co., 40 Osborne Road, Levenshulme.

REPRESENTATIVE, with good connections in provinces, required, commencing January, to call on high-class Hairdressers and Chemists to sell largely advertised and well-known Proprietary Toilet articles. State full particulars and experience, in confidence, to 218/15, Office of this Paper.

REQUIRED (at once), an Invoice Clerk, with experience of Wholesale Drug Trade. Apply with particulars of experience, and stating salary required, to "Cable" (211/4), Office of this Paper.

WANTED, qualified Chemist, with experience of manufacturing Toilet and Medicinal Preparations for Wholesale house. State fully experience, age, and salary, 204/21, Office of this Paper.

WANTED, man for Despatch Department in London Wholesale house; experienced in checking and handling of orders, and with some general knowledge of the Wholesale trade. State whether eligible for Army, also age, salary, etc., to 209/26, Office of this Paper.

WANTED, Chemist with Manufacturing or Laboratory experience for firm manufacturing well-known Proprietary Medicinal and Toilet articles; must be ineligible for the Army. Apply by letter, stating experience, age, and salary required, to 208/16, Office of this Paper.

WHOLESALE.—Smart man, not afraid of work, required to take charge of important department of a firm at their Midland depôt, Birmingham district; must have good knowledge of the Drug trade (qualification not necessary); applicants must be over military age or ineligible. "Midland" (219/4), Office of this Paper.

SITUATIONS OPEN. (Colonial, Indian and Foreign.)

BURMA.—Assistant; qualified; ineligible; about 25; salary 300 rupees per month, 325-350; three years' agreement; passage paid out and home. Apply 221/8, Office of this Paper.

LABORATORY.—Working Foreman required for South Africa; ineligible for military service; must be thoroughly experienced in the general work of a Steam Laboratory; progressive salary; passage paid out; good prospects. Apply, by letter only, Lennon, 14 Lafone Street, London, S.E. 1.

LARGE firm manufacturing Surgical Dressings, Druggists' Sundries, Perfumes, and Packed Chemists' Goods, are desirous of appointing Agents and Representatives in British Colonies and foreign countries where unrepresented. Apply "Expansion" (186/36), Office of this Paper.

SITUATIONS WANTED.

rs. for 12 words or less; 6d. for every
10 words or less beyond, prepaid

[HOME.]
RETAIL.

ADVERTISER is open to offer as Manager, over military age, in good-class Retail; thoroughly competent; qualified; first-class provincial experience; salary must be good; tall; good address. State salary, etc., to "Pharmacist" (221/25), Office of this Paper.

A. H. COOPER, M.P.S., 5 The Vineyards, Bath, open for temporary engagements.

A S Locum; permanency; excellent references and experience; reasonable terms. "Chemist," 25 Clarendon Road, Holland Park.

A S Manager or other responsible position; qualified; 20 years' experience; state salary. Apply 221/13, Office of this Paper.

A SSISTANT; unqualified; ineligible; experienced; Mersey area preferred, but not essential. Apply 210/29, Office of this Paper.

A SSISTANT or Locum; ineligible. Resh 2 Gloucester Cottages, Clarence Road, Fleet, Hampshire.

BIRMINGHAM.—Lady Dispenser, good experience, references, desires post with Doctor, Chemist, or Institution; whole or part-time. Apply 216/40, Office of this Paper.

BRANCH Manager or Superintendent; qualified; 36; married; about February. "Elixir" (216/36); Office of this Paper.

DISENGAGED Assistant; ineligible; thoroughly competent; holiday relief or permanent. B. D., 63 Golborne Road, North, Kensington.

ELDERLY, qualified man, good all-round experience, requires light work. M. C., 593 Ashton New Road, Manchester.

GENTLEMAN, qualified, elderly, active, with wide experience, is open to appointment. "Pharmacist," 7 Avenue Road, Wallington, Surrey. (Indoors only.)

INELIGIBLE; twenty years' West-End and City experience; temporary or permanent; disengaged; best references. Please state hours, "Virol" (222/18). Office of this Paper.

LADY, studying for certificate, desires Dispensing post in Lancashire; Assistant seven years. Apply 219/15, Office of this Paper.

LADY Dispenser (part Hall qualified) will give few hours daily to gain experience; full time expenses only; S.W. district preferred. Apply 216/26, Office of this Paper.

LADY Dispenser (Hall qualification), experienced, desires post; can drive car and do running repairs. Apply 207/23, Office of this Paper.

LADY Dispenser (part Hall) requires post. "M.", 52 Leadenhall Street, London, E.C. 3.

LADY Dispenser (Hall) desires post in or near London. Buttrick, 7 Ridgeway, Enfield.

LADY Dispenser; accurate and neat; quick at Counter; experienced; reliable; disengaged now. Apply 222/8, Office of this Paper.

LADY desires post as Dispenser; Hall qualification. Apply 211/26, Office of this Paper.

LADY Dispenser (Hall certificate) desires post with Chemist, Doctor, or Hospital; experienced; mornings, evenings, or both. Apply 221/31, Office of this Paper.

LADY Pharmacist requires post in good-class Pharmacy; in or near Leeds preferred; some Retail experience; send usual particulars. Apply 221/32, Office of this Paper.

LANCASHIRE.—Lady Dispenser (Hall), experienced, requires situation; Doctor or Chemist; Surgical Dresser; would learn to drive car; references. Apply 210/26, Office of this Paper.

LEICESTER.—Qualified lady Dispenser (disengaged) (experienced). Write Dispenser, 37 New Walk, Leicester.

LOCUM or Temporary Manager; qualified; highest references; energetic, reliable; good experience any district; 41. Gar-side, Old Lane, Eccleston, Prescot, Lancs.

LOCUM; disengaged; 15 years' experience. Locum, 67 Martin's Lane, Wallacey.

LOCUM; age 28; height 5 ft. 10 in.; 14 years' experience; discharged; unqualified. Apply 221/500, Office of this Paper.

MANAGER or Assistant; qualified; ineligible; married; active and experienced; outdoors. Chemist, 17 Gladstone Park Gardens, Cricklewood, N.W. 2.

MANAGER or Senior; good all-round hand; West-End experience. State salary, "Jerusalem" (221/22). Office of this Paper.

PART-TIME; day or evening; London; age 28; tall; discharged. Apply 221/5, Office of this Paper.

PHARMACIST, elderly, active, seeks position in or near Manchester. "Chemist," c/o Cleavy, 43 Orient Street, Cheetham, Manchester.

PHARMACIST, 29, Army discharge certificate, experienced London, West-End, City, Suburban, Italian Riviera, South Coast, etc., seeks permanency, Manager or Senior; reasonable hours. Trump, 12 Naunton Park Road, Cheltenham.

QUALIFIED Manager, 25 years' experience, disengaged shortly. "Chemist," 108b Elgin Avenue, W. 9.

QUALIFIED; elderly; ineligible; at liberty. Alpha, 5 Barrett Street, Osney, Oxford.

QUALIFIED, 35, requires situation Manager; West-End, South Coast, provincial experience; reliable, energetic. Orlando, 52 Hemberton Road, Clapham, London.

QUALIFIED; 54; disengaged; City and West-End experience; capable Dispenser and Counterman. "Ph.C.," 3 Ranelagh Road, Pimlico, S.W.

QUALIFIED; elderly; single; easy hours; moderate salary; London. Apply 221/38, Office of this Paper.

QUALIFIED; 31; best West-End, provincial, and store experience; Dispensing or Laboratory; no Counter work; disengaged. Apply 221/3, Office of this Paper.

THURSDAYS free; qualified; 44; thoroughly experienced male. Pharmacist, 9 Claverton Street, S.W.

UNQUALIFIED; 23; Grade III.; Dispensing, Counter, and Photography; present engagement four years; state salary and hours. Apply 221/40, Office of this Paper.

WANTED, position as Manager or otherwise by elderly gentleman; good Dispenser and excellent Prescriber; permanency preferred; salary expected, £150 per annum. Apply in first place, Dinean Grant, Queen's Pharmacy, Queen's Ferry, N. Wales.

YOUNG gentleman requires berth with Chemist; would like two hours off each morning; live in. Apply 219/5, Office of this Paper.

44; as Dispenser or Assistant; £4 per week; M.P.S. Apply 216/38, Office of this Paper.

WHOLESALE.

ADVERTISER, extensive experience with Reagents, Fine Chemicals, Pharmaceuticals, etc., capable organiser, control staff, is open to consider reappointment as Departmental Manager or similar position. Apply 221/4, Office of this Paper.

CHEMIST, experienced first-class advertising houses, as Representative and Manager, skilful correspondent, good appearance, satisfactory record, seeks suitable position. Apply 213/30, Office of this Paper.

EXPERIENCED Traveller, age 50, about to reside on the ground, desires additional house; Drug or Allied trades; small salary and part expenses for counties of Gloucester, Somerset, Devon, Dorset, Cornwall. "Mutual" (222/19), Office of this Paper.

GENTLEMAN, 45 years of age, tall, good appearance and address, 28 years' experience of Drug and Chemical trade, desires post as Representative either London, West of England, or abroad; aptitude for languages. Address 201/9, Office of this Paper.

LABORATORY Foreman or Manager (up-to-date Toilet specialities) disengaged; over military age; highest references; London. Apply 222/13, Office of this Paper.

MEDICINAL Tablet Maker, many years' experience, capable of taking charge of plant and control staff, seeks situation. Apply Box 222/11, Office of this Paper.

PRINTING-IN Name and Address on Speciality Labels, Envelopes, etc.; home work wanted by discharged man. Turner, 23 Rosebery Avenue, E.C.

QUALIFIED Chemist, with 10 years' experience of travelling, very successful account opener, seeks post of Representative for good house; London preferred. "H. S., 122 Addison Way, London, N.W. 4.

TRAVELLER, Chemists' connection, Eastern and S.E. counties, open for side line; expenses and commission. Apply 216/390, Office of this Paper.

TRAVELLER, Chemists' connection, United Kingdom (London excepted), seeks position; salary and expenses. Apply 216/39, Office of this Paper.

MISCELLANEOUS.

WANTED, Square or Round Tin Boxes, new or second-hand, for powdered colours; size 1 lb. and upwards; good prices given; cash payment. Williams Bros. & Co., Hounslow.

SECOND-HAND SHOP FITTINGS.—Just out of use, complete set, comprising 11 feet drug fitting with mahogany, drawers, bottle shelving and lockers, several other nests of drug drawers and shelving, 16 ft. mahogany top serving counter filled with drawers at back, 5 ft. dispensing screen and counter, large perfume showcase and desk, mirror back and glass shelves, fine bent plate-glass counter showcase, 5 ft. mahogany wall case with drawers under, four good carboys, etc., all for 60 guineas; suit beginner or branch. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **KUDDUCK & CO.**, 262 Old Street, London, E.C.

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TEA SWEETENERS

One equal to a
teaspoonful of Sugar.

14/- per 1000—Sell at 4 for 1d.—50% profit.

Also in 6d. and 1/- boxes.

SACCHARINE TABLETS

Guaranteed 50%
of .330 Saccharine.

17/3 per 1000, 120/- per lb.

Only terms, Cash with Order, Carriage Paid.

A. S. PRICE & Co. Ltd., Blackheath, Birmingham.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.

12 ounce.
WHITE PHIALS, plain or teaspoons.
1 ounce. 1½ ounce.

1

2 **BLUE LOTION BOTTLES**, all sizes.

CORKS. Superior Quality. No advance in price.

5 and 8 ounce ... 1s. per gross, in 6 gross bags.

Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,

106 Midland Road, St. Pancras, London, N.W. 1,

or ISLINGTON BOTTLE COMPANY,

1 New Inn Yard, Tottenham Court Road, London, W. 1.

Orders sent to either establishment have attention.

Established 100 Years.

SACCHARIN TABLETS

(½ grain 330 in 1 guaranteed)

Packed in Flasks of: Packed in Boxes of
100s @ 21/6 per dozen 1,000 @ 17/- per thousand
200s @ 43/- " 5,000 @ 16/10 "
500s @ 105/- " 10,000 @ 16/9 "
Sold by Weight—115/- per lb., in not less than 1 lb. lots.

Cash with Order. Post Paid by return.
Attractive Window Posters supplied free.

All initial difficulties have now been overcome, and I guarantee my tablets **Second to None** on the market in Quality, Finish and Price.

Sample free upon receipt of stamped addressed envelope.

Richard HOULT

73 ELFORD GROVE, LEEDS.

SACCHARINE TABLETS

½ gr. 330 in 1.

per lb.	120/-	} Cash with Order.
100's	....	22/6 doz.
200's	....	44/- doz.
500's	....	106/- doz.
1,000's	210/- doz.	

Jules Denoual & Co.

Carlton Works,

ASYLUM ROAD, S.E. 15.

IMPORTANT.

TO PHOTOGRAPHIC DEALERS.

Why not sell your stock of Cameras and Accessories before they become stale?

Hundreds of Chemists find themselves with Photographic Goods they are unable to sell owing to present war conditions, lack of film supplies, and staff to work these sidelines. Next year they will be totally unsaleable. We buy them, and give a good price. Ask your neighbours (we are well known), and they will tell you we do our business fairly, promptly, and pay up sharp. We never quibble.

We pay TWO-THIRDS RETAIL PRICE for the following:

Vest Pocket Kodaks with R.R. lenses (55/- model); Watch Pocket Carbins 2½-square, and spools for each; Kodak Developing Tanks (Brownie and 3½"); No. 2 Folding Brownies; No. 0 and No. 1 Brownies, and No. 2 Brownie spools.

This gives you a small profit. Why keep them on your shelves?

We will buy anything else Photographic you have, from a 40-guinea Reflex to a 1/- Dark-Room lamp, and give equally good prices, according to demand and current market value. Do not trouble to send specifications. Pack us up a box. On receipt we write you our offer immediately. If we fail to come to terms we send back at once, carriage paid.

We are principal Agents for all the leading Photographic Manufacturers. Ask any of them what they think of our business methods. We receive these testimonials daily:

Bedford.—"I have never yet met such prompt attention at the hands of any business house."

Mr. A. W. I., of Evesham.—"I am in receipt of your letter of the 2th inst., enclosing cheque for £10, for which I thank you. The transaction has been most satisfactory. Thanking you for your courteous attention."

Mr. W. T., of Lincoln.—"I beg to acknowledge receipt of your cheque for £5 10s., with thanks. If at any time I

should have any part of photographic apparatus to dispose of, I shall be glad to further deal with you."

And the following:

H. G., of London.—"I have much pleasure in accepting your cheque for £7 10s., and shall be glad at any future date to have further dealings with you, and to recommend you to any of my friends."

WATSONS,' THE CAMERA HOUSE, 84 High Street, SHEFFIELD.

**ALL CHEMISTS
SHOULD STOCK**

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation.

"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3.

Wholesale Prices on application. Sample Box 1/3.

D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

WAR WANTS EXCHANGE.

For the terms upon which announcements are inserted herein see Supplement for December 8, p. aliii.

WANTED.

Theocin sodii acetate tablets (206/70)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

INORGANIC Chemistry, Newth, 1896; perfect condition; 7s. 6d. Richards, 1 Downton Road, Salisbury.

DRUGS AND CHEMICALS.

CYCLOFORM, Lenigallol, Mesotan, Hormonal, Sabromin, Pergatin, Spirosol, Albargin, Oresin, Novargin; 1 oz. each. Offers. Callam, East Dulwich.

ASSAFOETIDA, best soft, 7 lb. tin, carriage paid, 10s. 6d.; one dozen I. R. Catheters, various sizes, 3s. dozen; good condition. Lockyer, Chemist, Deptford, S.E. 8.

WHAT offer? 1 oz. each Glycin, Edinol, Cryogenine, Tannigen, Ohinosol, Xeroform, Theocin, Diureline, Iodothyrene, Veronal, Helmitol, Argrol, Mesotan, Digalen, Salicine, 3 Phosphocose, etc., others. Fowler's Pharmacy, Tain.

MISCELLANEOUS.

FOR Sale, 1 doz. Liebig's Wine, quarts; 1 cwt. Lump Resin. McMullan, Chemist, Larne.

PILL Rounding and Finishing Machine; Niblett's patent. Apply 216/37, Office of this Paper.

WANTED.

WANTED, Gellotte Razors and Blades. Watson's, 84 High Street, Sheffield.

WANTED, Photographic Scales in oak boxes. Apply 219/8, Office of this Paper.

CAPSULING Machine in good order. Particulars to Morris Evans & Co., Festiniog, N.W.

HAAB'S Atlas; other Optical Books considered. State price and edition, Farnworth, Optician, Lytham.

WANTED, Bayer's Citarin, original. State price and quantity, Reith, Pharmacist, Culter, Aberdeenshire.

TABLET Machine wanted for ½ inch tablets; state make and price. Apply 209/47, Office of this Paper.

WARNER'S Tono Sumbul, Pure Glycerine, Brome Paper, Creme Timon; state prices. Apply 211/27, Office of this Paper.

GENUINE Rice Starch; lump or powdered, in large or small quantities; state price. Apply 183/32, Office of this Paper.

GLYCERINE wanted for Dispensing; any quantity; Winchester or 56 lb. Tin. Also Alypin, Laver. Moorhouse, Pharmacist, Barnsley.

WANTED, "Chemist and Druggist," May 26, 1917; clean and perfect. Post, with shop label on cover, to "S. B." (15/15), Office of this Paper.

WANTED, mahogany bent-glass Counter Case, mirrored back; must be in good condition; 3 ft. 6 in. to 4 ft. 6 in. State full particulars to 222/17, Office of this Paper.

WANTED, a Hand Machine, suitable for making Tooth Paste and mixing heavy Powders. Royle & Co., Wholesale Sundriesmen, 21 The Mall West, Notting Hill Gate, W. 8.

WINES and Spirits wanted: Invalid Port, Tarragona, cheap Claret; 10s. per bottle offered for 30 U.P. Brandy and Gin, other strengths in proportion. Belsher, Chemist, Bloxwich.

IODOTHYRINE Tablets (Bayer), 5 grain, and a few S. and M. Fructolax wanted. Please communicate Victor E. Hanna, The Prescription Pharmacy, 70 Lower Mount Street, Dublin.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED, new or second-hand Tablet-Making Machine; capacity about 200 tablets per minute, and the normal weight of the tablet to be 5 grains. Reply, with full particulars, to L. B. Holliday & Co., Huddersfield.

WRAPPING Machine wanted immediately; either new or second-hand; suitable for wrapping packets from 1" cube upwards; makers are invited to send lists. Box 22a, Osborne-Peacock Co., Ltd., Cannon Street, Manchester.

IMPORTANT ANNOUNCEMENT

WE beg to advise the trade
that as from **TUESDAY,**
DECEMBER 11, 1917, the

RETAIL PRICE

of

**WRIGHT'S
COAL TAR SOAP**

will be

PER **5^{d.}** *TABLET*

WRIGHT, LAYMAN & UMNEY, Ltd.
SOUTHWARK **LONDON S.E.**

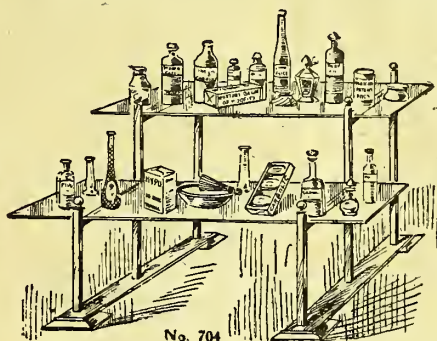
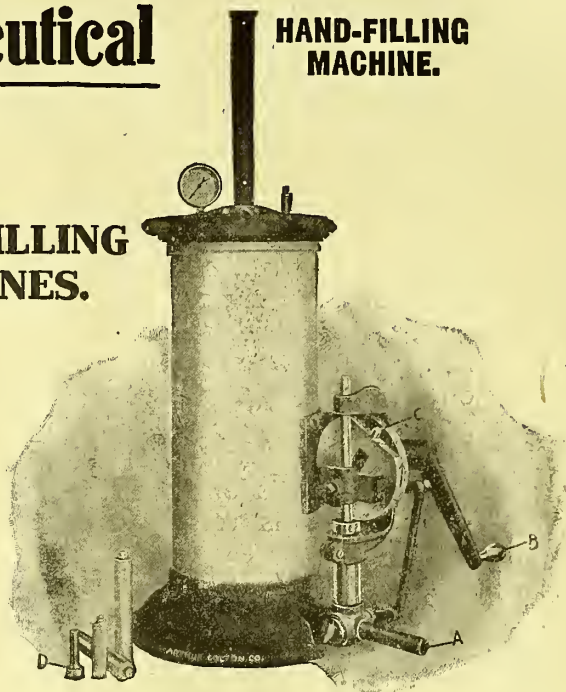
Colton's Pharmaceutical Machinery.

**COLLAPSIBLE TUBE FILLING
and CLOSING MACHINES.**

**TABLET AND
PILL PLANT,**
etc.

LISTS FREE ON APPLICATION

JOHN J. GRIFFIN & SONS, LTD., KINGSWAY, LONDON, W.C.



WINDOW or COUNTER UNIT

A smart Stand that can be trimmed
in a few minutes.

In Solid Oak, with two 30" x 9"
Plate Glass Shelves, **35/-** A
limited number in Solid Brass, **45/-**
Cannot be repeated.

New model Metal Signs from stock.

Saml. Haskins & Bros., Ltd.
20/34 OLD ST., LONDON, E.C. 1.

PURE DRINKING WATER.



The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT
STATEMENT:

Wherever the **PASTEUR
FILTER** has been applied,
TYPHOID FEVER has
disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.
5 WHITE STREET, FINSBURY,
LONDON, E.C. 2.

A NATIONAL DUTY

NO doubt everybody is doing his bit. There are so many calls to, and so many opportunities of engaging in some sort of war work or other that few, excepting those incapacitated by health considerations, can urge reasons why they should not. Everybody is willing to sacrifice time, recreation, leisure, and often sleep that they may make munitions, be a "Special," or act as a V.A.D. orderly, but sometimes the duty which entails no sacrifice, and, in fact, is a profitable undertaking, is neglected. To-day there is one pressing and urgent call on every man and woman who is earning a little more than the cost of living, and that is to purchase

NATIONAL WAR BONDS

National
WAR
BONDS

Herbs in Packets

In consequence of scarcity and high price of Herbs, Boxes, Wrappers, Labour, etc., our prices from December 1 will be
1/- per dozen.

Gross lots and upwards, 11/- per gross.
Retail Price, 1½d. per packet.

National
WAR
BONDS

Ask at your Bank or Post Office for forms and particulars, and make up your mind to subscribe *at once*.

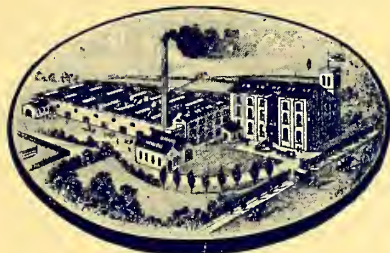
Each of our Directors is investing as much as possible in War Bonds.

POTTER & CLARKE, LTD.

LONDON AND MANCHESTER.

THE
Wigglesworth
WAY

10 YEARS OF PROGRESS



These commanding premises, standing in their own grounds, are fronted by a well-kept garden, and fully equipped with the latest types of machinery for the manufacture of Compressed Tablets and Pharmaceutical Specialities.



Samples and Prices
will be sent on
receipt of postcard.

On November 5, 1907, the "WIGGLESWORTH WAY" came into existence. In its "Acorn" stage 250 square feet of floor space sufficed. Some two years later it was found necessary to transplant the young sapling, which, owing to its rapid growth, required more space, and its new home at Rosehill, Bolton, suited it admirably for six years. The continued process of growth enforced another removal, and the healthy young oak is now flourishing at Westhoughton, where development can continue unrestricted. The roots have become embedded, and with the tree in such a flourishing condition everything augurs well for the future progress of the "WIGGLESWORTH WAY." The present site has an area of nearly 5,000 square yards, and is excellently adapted in every way for the production of high-grade products. The secret of this remarkable result is in a large measure due to increasing the selling power of Window Display. The "WIGGLESWORTH WAY" combines the two great forces:—

SPECIALISING and ADVERTISING.

All the specialities are products of the highest grade, enclosed in attractive packages. The advertising consists of special show outers, hand-painted showcards and window bills, and printed cards, &c. This combination makes window dressing a pleasure, having double the effect with half the time expended. By the conversion of the window into a live selling force, compelling would-be passers-by to come into your Pharmacy, the "WIGGLESWORTH WAY" has now over 2,500 enthusiastic supporters. We shall be pleased to hear from any Pharmacist who has not yet adopted it.

WIGGLESWORTH LTD.
WESTHOUGHTON, LANCs.

TO WHOLESALE & EXPORT TRADES.

ESTABLISHED 1846.

Extracts
Tinctures in Bond

RANSOMS

Resins
Essential Oils

WILLIAM RANSOM & SON, LTD.,

MANUFACTURING PHARMACEUTICAL CHEMISTS.

Distillers of Essential Oils and Cultivators of Medicinal Plants.

HITCHIN, near LONDON.

Telephone: 95 HITCHIN.

A Guarantee
Cadbury's Cocoa
Made at Bournville.


IS ABSOLUTELY PURE.
The recognised
Standard of British
Manufacture.

50 YEARS' REPUTATION.

FENNINGS' CHILDREN'S POWDERS

ADVERTISED EVERYWHERE.

READY SALES.



**GOODALL
BACKHOUSE
AND COMPANY**

**MANUFACTURING CHEMISTS and
WHOLESALE DRUGGISTS**

We especially invite inquiries for

TARTARIC ACID

EMULSIONS

OINTMENTS

SEIDLITZ POWDERS

White Horse Street, LEEDS.

Telephone: 3574
Central (4 lines).